

ENCLOSURE DIVISION

THE CMP ENCLOSURE SYSTEM

The CMP Enclosure System is the outgrowth of CMP's broad experience in the manufacture of fine custom cabinetry for the electronics and data processing industries. Our objective was to engineer a system which was functional yet attractive, rugged yet economical, versatile yet simple . . . in short . . . to provide the fine detail and workmanship of custom cabinetry at mass production prices.

The resulting design is a refinement of the universally accepted modular principle of electronic packaging. Any configuration . . . side by side . . . back to back, etc. . . is feasible, utilizing a variety of frames, sides, doors and accessories which are all readily available in standard sizes.

The enclosures are engineered to meet the most exacting packaging requirements, while allowing the engineer an unusual latitude for layout. The fabrication techniques utilized in manufacturing the modular components and in assembling the modules themselves are geared to produce exceptionally rugged structures.

We are confident that the CMP Enclosure System will provide the best solution to your packaging problems.

CUSTOM METAL PRODUCTS, INC.

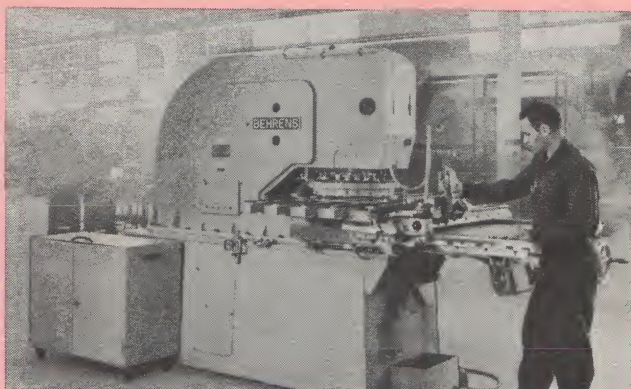
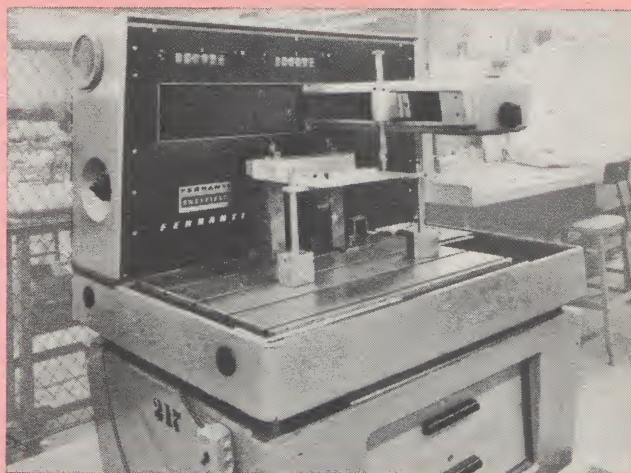
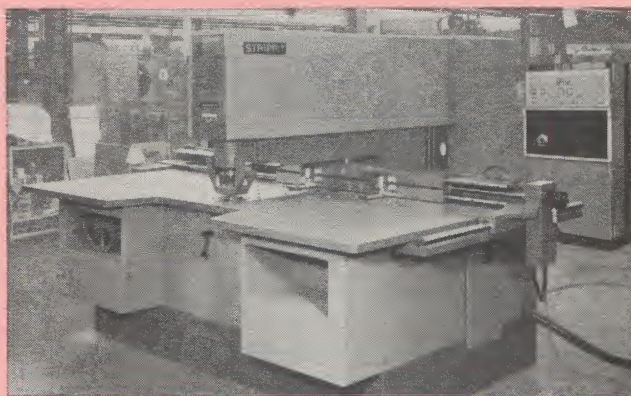
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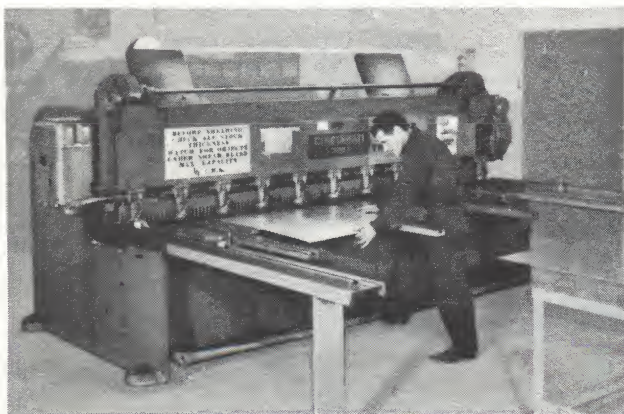
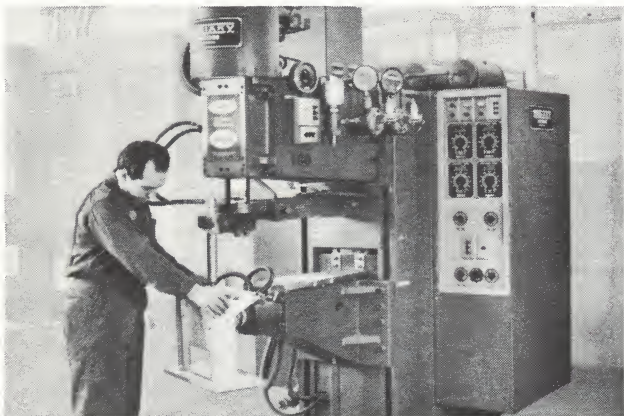
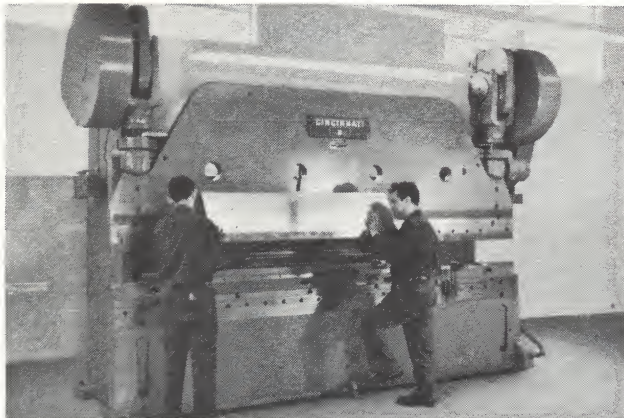


ENCLOSURE DIVISION

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PRECISION...

A man is judged by the company he keeps ... and a manufacturer is judged by the equipment he uses. The standards of quality and reliability of CMP products are in large part related to the precision equipment that is used in all phases of fabrication. Shearing, piercing, forming, welding, grinding, finishing, and inspection are all performed with the newest and best equipment available. Typical examples are numerically controlled piercing machinery and electronic inspection equipment which enable CMP to meet the most demanding military and commercial specifications.



ENCLOSURE DIVISION

CONSTRUCTION FEATURES

All CMP frames are made of high quality No. 14 gauge cold rolled steel and are exceptionally rugged. Panel mounting angles are No. 11 gauge steel and the horizontal angle supports are No. 16 gauge. The frame is equipped with 2 pairs of panel mounting angles which are adjustable on 1 3/4" centers. Both legs of the angle have E.I.A. 5/8" — 5/8" — 1/2" hole spacing.

The removable horizontal angle supports are vertically adjustable. This added feature provides complete flexibility in the side installation and servicing of equipment.

The frame is easily gasketed without construction changes. Flanges are provided on all open areas, allowing simple installation of gasketing. The frame accommodates flush fitting sides. Units may be assembled side-by-side without the need of special size or shape panels. The frames may be assembled in an unlimited variety of arrangements.

The base is removable, allowing for the use of a pontoon-type or a single, double or triple caster base. Alternatively, the frame may be used without a base.

FINISHING

After a thorough cleaning, all parts are protected by a corrosion-resistant phosphatized coating; then finished by enamelling and baking. Frames are Light Gray Enamel; doors and panels are Smoke Gray Enamel.

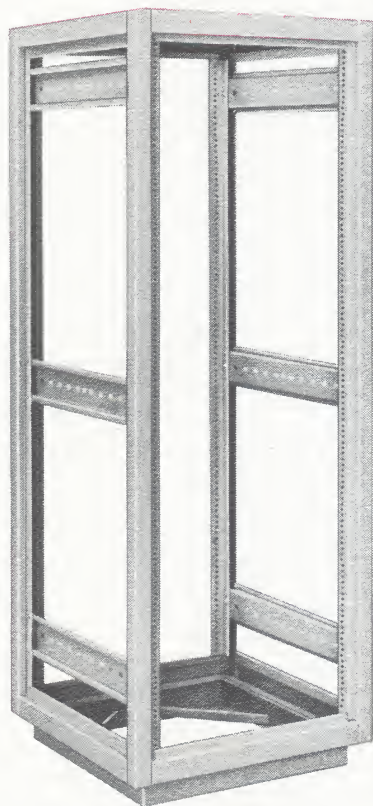
PLASTIC LAMINATED TOPS AND SHELVES

All laminated tops and shelves are made of a thermosetting plastic which resists abrasion, heat, acids and alkalines.



FEATURES

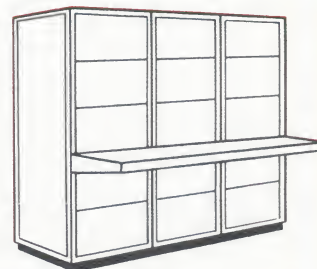
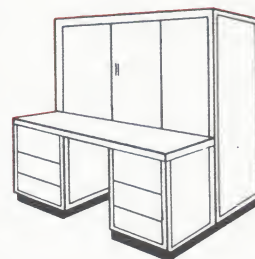
- Designed to be joined side by side or back to back in modular arrangement
- Made of No. 14 gauge cold rolled steel
- Supplied with 2 pairs of adjustable panel mounting angles made of No. 11 ga. steel
- Removable and adjustable horizontal angle supports
- Accommodates flush panels and doors (Pages 13 and 14)
- Base optional — order only if required (Page 15)
- Easily gasketed — all openings have return flanges on all 4 sides
- Adaptable for eye bolts — (add EB to Catalog number — Page 26)
- 2 depths — 23 $\frac{3}{8}$ " and 28 $\frac{3}{8}$ "
- 2 panel widths — for 19" and 24" panels
- 8 heights — 21" to 78 $\frac{3}{4}$ "
- Frames of varying sizes can be easily joined without special parts
- Frames can be joined together using joining kit (Page 26)
- Finished in Light Gray Enamel



VE SERIES



VERTICAL FRAMES

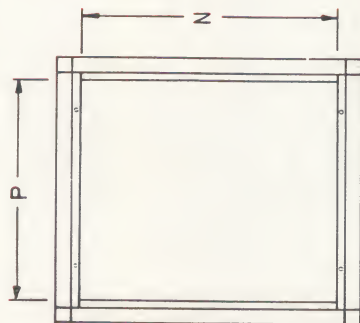


23 $\frac{3}{8}$ " Wide	23 $\frac{3}{8}$ " DEEP		28 $\frac{3}{8}$ " Wide
19" Panel Space	Vertical Panel Space	Overall Height Less Base	24" Panel Space
Cat. No.			Cat. No.
VE-121-3	21"	26 $\frac{3}{8}$ "	VE-221-3
VE-128-3	28"	33 $\frac{3}{8}$ "	VE-228-3
VE-135-3	35"	40 $\frac{3}{8}$ "	VE-235-3
VE-143-3	43 $\frac{3}{4}$ "	49 $\frac{1}{8}$ "	VE-243-3
VE-152-3	52 $\frac{1}{2}$ "	57 $\frac{3}{8}$ "	VE-252-3
VE-161-3	61 $\frac{1}{4}$ "	66 $\frac{3}{8}$ "	VE-261-3
VE-170-3	70"	75 $\frac{3}{8}$ "	VE-270-3
VE-178-3	78 $\frac{3}{4}$ "	84 $\frac{1}{8}$ "	VE-278-3

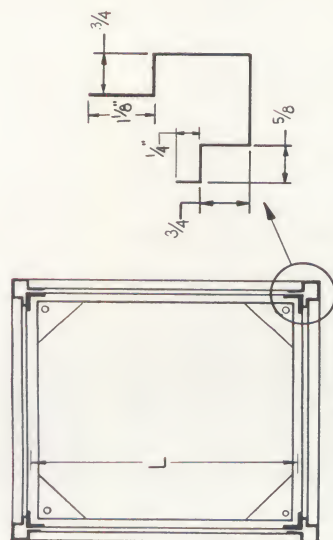
23 $\frac{3}{8}$ " Wide	28 $\frac{3}{8}$ " DEEP		28 $\frac{3}{8}$ " Wide
19" Panel Space	Vertical Panel Space	Overall Height Less Base	24" Panel Space
Cat. No.			Cat. No.
VE-121-8	21"	26 $\frac{3}{8}$ "	VE-221-8
VE-128-8	28"	33 $\frac{3}{8}$ "	VE-228-8
VE-135-8	35"	40 $\frac{3}{8}$ "	VE-235-8
VE-143-8	43 $\frac{3}{4}$ "	49 $\frac{1}{8}$ "	VE-243-8
VE-152-8	52 $\frac{1}{2}$ "	57 $\frac{3}{8}$ "	VE-252-8
VE-161-8	61 $\frac{1}{4}$ "	66 $\frac{3}{8}$ "	VE-261-8
VE-170-8	70"	75 $\frac{3}{8}$ "	VE-270-8
VE-178-8	78 $\frac{3}{4}$ "	84 $\frac{1}{8}$ "	VE-278-8

SEE PAGE 6 FOR DRAWING AND DIMENSIONS

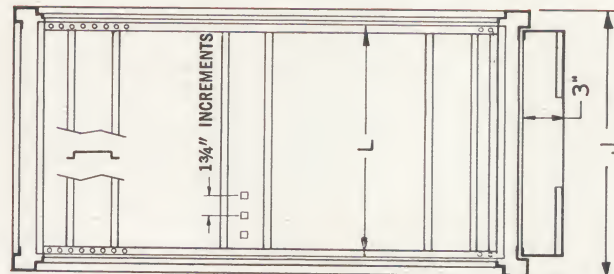
VERTICAL FRAME/VE SERIES



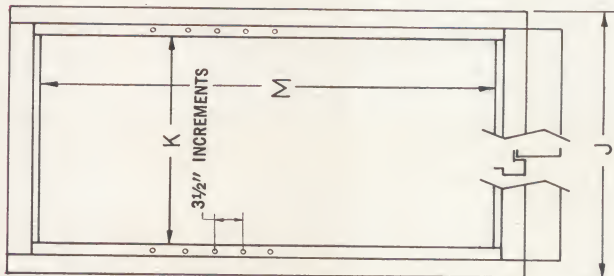
TOP VIEW



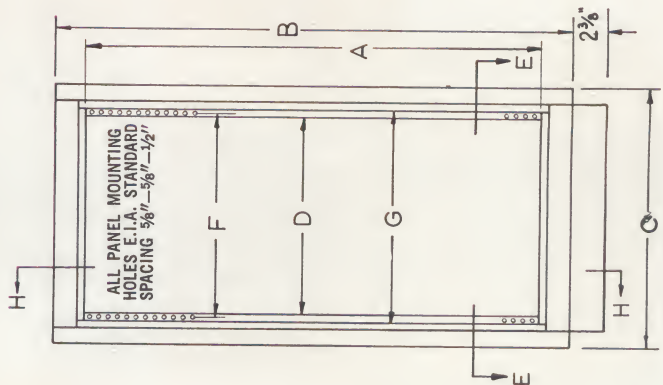
SECTION E-E



SECTION H-H



SIDE VIEW

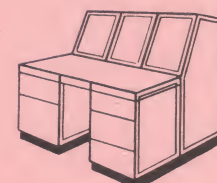
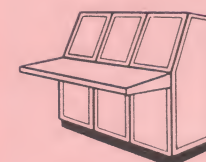
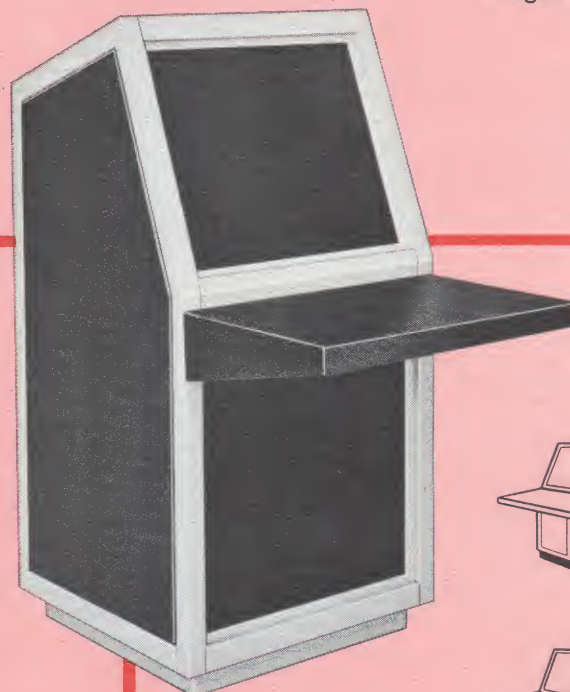
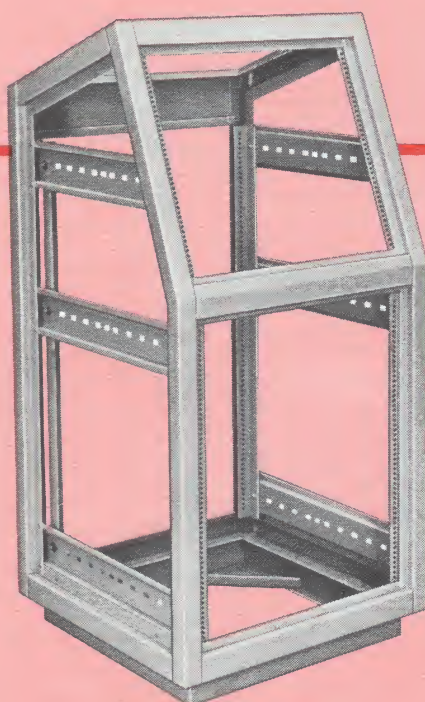


FRONT & REAR VIEW

	#A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
VE121-3	21	26 3/8	23 3/8	17 1/2	18 1/2	19 1/2	23 3/8	18 1/2	20 1/2	20 3/8	20 1/2	20 3/8	20	18 1/2	19
VE128-3	28	33 3/8	31 3/8	24 1/2	25 1/2	26 1/2	30 3/8	25 1/2	27 1/2	27 1/2	27 1/2	27 1/2	27	25 1/2	26
VE135-3	35	40 3/8	38 3/8	31 3/2	32 3/2	33 3/2	37 3/8	32 3/2	34 3/2	34 3/2	34 3/2	34 3/2	34	32 3/2	33
VE143-3	43	49 3/8	47 3/8	39 1/2	40 1/2	41 1/2	45 3/8	40 1/2	42 1/2	42 1/2	42 1/2	42 1/2	42 1/2	40 1/2	41
VE152-3	52	57 3/8	55 3/8	47 1/2	48 1/2	49 1/2	53 3/8	48 1/2	50 1/2	50 1/2	50 1/2	50 1/2	50 1/2	48 1/2	49
VE161-3	61	66 3/8	64 3/8	55 1/2	56 1/2	57 1/2	61 3/8	56 1/2	58 1/2	58 1/2	58 1/2	58 1/2	58 1/2	56 1/2	57
VE170-3	70	75 3/8	73 3/8	63 1/2	64 1/2	65 1/2	69 3/8	64 1/2	66 1/2	66 1/2	66 1/2	66 1/2	66 1/2	64 1/2	65
VE178-3	78	84 3/8	82 3/8	71 1/2	72 1/2	73 1/2	77 3/8	72 1/2	74 1/2	74 1/2	74 1/2	74 1/2	74 1/2	72 1/2	73
VE187-3	87	93 3/8	91 3/8	80 1/2	81 1/2	82 1/2	86 3/8	81 1/2	83 1/2	83 1/2	83 1/2	83 1/2	83 1/2	81 1/2	82
VE196-3	96	102 3/8	100 3/8	89 1/2	90 1/2	91 1/2	95 3/8	90 1/2	92 1/2	92 1/2	92 1/2	92 1/2	92 1/2	90 1/2	91
VE205-3	105	111 3/8	109 3/8	98 1/2	99 1/2	100 1/2	104 3/8	99 1/2	101 1/2	101 1/2	101 1/2	101 1/2	101 1/2	99 1/2	100
VE214-3	114	120 3/8	118 3/8	107 1/2	108 1/2	109 1/2	113 3/8	108 1/2	110 1/2	110 1/2	110 1/2	110 1/2	110 1/2	108 1/2	109
VE223-3	123	129 3/8	127 3/8	116 1/2	117 1/2	118 1/2	122 3/8	117 1/2	119 1/2	119 1/2	119 1/2	119 1/2	119 1/2	117 1/2	118
VE232-3	132	138 3/8	136 3/8	125 1/2	126 1/2	127 1/2	131 3/8	126 1/2	128 1/2	128 1/2	128 1/2	128 1/2	128 1/2	126 1/2	127
VE241-3	141	147 3/8	145 3/8	134 1/2	135 1/2	136 1/2	140 3/8	135 1/2	137 1/2	137 1/2	137 1/2	137 1/2	137 1/2	135 1/2	136
VE250-3	150	156 3/8	154 3/8	143 1/2	144 1/2	145 1/2	149 3/8	144 1/2	146 1/2	146 1/2	146 1/2	146 1/2	146 1/2	144 1/2	145
VE259-3	159	165 3/8	163 3/8	152 1/2	153 1/2	154 1/2	158 3/8	153 1/2	155 1/2	155 1/2	155 1/2	155 1/2	155 1/2	153 1/2	154
VE268-3	168	174 3/8	172 3/8	161 1/2	162 1/2	163 1/2	167 3/8	162 1/2	164 1/2	164 1/2	164 1/2	164 1/2	164 1/2	162 1/2	163
VE277-3	177	183 3/8	181 3/8	170 1/2	171 1/2	172 1/2	176 3/8	171 1/2	173 1/2	173 1/2	173 1/2	173 1/2	173 1/2	171 1/2	172
VE286-3	186	192 3/8	190 3/8	179 1/2	180 1/2	181 1/2	185 3/8	180 1/2	182 1/2	182 1/2	182 1/2	182 1/2	182 1/2	180 1/2	181
VE295-3	195	201 3/8	199 3/8	188 1/2	189 1/2	190 1/2	194 3/8	189 1/2	191 1/2	191 1/2	191 1/2	191 1/2	191 1/2	189 1/2	190
VE304-3	204	210 3/8	208 3/8	197 1/2	198 1/2	199 1/2	203 3/8	198 1/2	200 1/2	200 1/2	200 1/2	200 1/2	200 1/2	198 1/2	199
VE313-3	213	219 3/8	217 3/8	206 1/2	207 1/2	208 1/2	212 3/8	207 1/2	209 1/2	209 1/2	209 1/2	209 1/2	209 1/2	207 1/2	208
VE322-3	222	228 3/8	226 3/8	215 1/2	216 1/2	217 1/2	221 3/8	216 1/2	218 1/2	218 1/2	218 1/2	218 1/2	218 1/2	216 1/2	217
VE331-3	231	237 3/8	235 3/8	224 1/2	225 1/2	226 1/2	230 3/8	225 1/2	227 1/2	227 1/2	227 1/2	227 1/2	227 1/2	225 1/2	226
VE340-3	240	246 3/8	244 3/8	233 1/2	234 1/2	235 1/2	239 3/8	234 1/2	236 1/2	236 1/2	236 1/2	236 1/2	236 1/2	234 1/2	235
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VE358-3	258	264 3/8	262 3/8	251 1/2	252 1/2	253 1/2	257 3/8	252 1/2	254 1/2	254 1/2	254 1/2	254 1/2	254 1/2	252 1/2	253
VE367-3	267	273 3/8	271 3/8	260 1/2	261 1/2	262 1/2	266 3/8	261 1/2	263 1/2	263 1/2	263 1/2	263 1/2	263 1/2	261 1/2	262
VE376-3	276	282 3/8	280 3/8	269 1/2	270 1/2	271 1/2	275 3/8	270 1/2	272 1/2	272 1/2	272 1/2	272 1/2	272 1/2	270 1/2	271
VE385-3	285	291 3/8	289 3/8	278 1/2	279 1/2	280 1/2	284 3/8	279 1/2	281 1/2	281 1/2	281 1/2	281 1/2	281 1/2	279 1/2	280
VE394-3	294	300 3/8	298 3/8	287 1/2	288 1/2	289 1/2	293 3/8	288 1/2	290 1/2	290 1/2	290 1/2	290 1/2	290 1/2	288 1/2	289
VE403-3	303	309 3/8	307 3/8	296 1/2	297 1/2	298 1/2	302 3/8	297 1/2	299 1/2	299 1/2	299 1/2	299 1/2	299 1/2	297 1/2	298
VE412-3	312	318 3/8	316 3/8	305 1/2	306 1/2	307 1/2	311 3/8	306 1/2	308 1/2	308 1/2	308 1/2	308 1/2	308 1/2	306 1/2	307
VE421-3	321	327 3/8	325 3/8	314 1/2	315 1/2	316 1/2	320 3/8	315 1/2	317 1/2	317 1/2	317 1/2	317 1/2	317 1/2	315 1/2	316
VE430-3	330	336 3/8	334 3/8	323 1/2	324 1/2	325 1/2	329 3/8	324 1/2	326 1/2	326 1/2	326 1/2	326 1/2	326 1/2	324 1/2	325
VE439-3	339	345 3/8	343 3/8	332 1/2	333 1/2	334 1/2	338 3/8	333 1/2	335 1/2	335 1/2	335 1/2	335 1/2	335 1/2	333 1/2	334
VE448-3	348	354 3/8	352 3/8	341 1/2	342 1/2	343 1/2	347 3/8	342 1/2	344 1/2	344 1/2	344 1/2	344 1/2	344 1/2	342 1/2	343
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VE466-3	366	372 3/8	370 3/8	359 1/2	360 1/2	361 1/2	365 3/8	360 1/2	362 1/2	362 1/2	362 1/2	362 1/2	362 1/2	360 1/2	361
VE475-3	375	381 3/8	379 3/8	368 1/2	369 1/2	370 1/2	374 3/8	369 1/2	371 1/2	371 1/2	371 1/2	371 1/2	371 1/2	369 1/2	370
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VE547-3	447	453 3/8	451 3/8	440 1/2	441 1/2	442 1/2	446 3/8	441 1/2	443 1/2	443 1/2	443 1/2	443 1/2	443 1/2	441 1/2	442
VE556-3	456	462 3/8	460 3/8	449 1/2	450 1/2	451 1/2	455 3/8	450 1/2	452 1/2	452 1/2	452 1/2	452 1/2	452 1/2	450 1/2	451
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VE574-3	474	480 3/8	478 3/8	467 1/2	468 1/2	469 1/2	473 3/8	468 1/2	470 1/2	470 1/2	470 1/2	470 1/2	470 1/2	468 1/2	469
VE583-3	483	489 3/8	487 3/8	476 1/2	477 1/2	478 1/2	482 3/8	477 1/2	479 1/2	479 1/2	479 1/2	479 1/2	479 1/2	477 1/2	478
VE592-3	492	498 3/8	496 3/8	485 1/2	486 1/2	487 1/2	491 3/8	486 1/2	488 1/2	488 1/2	488 1/2	488 1/2	488 1/2	486 1/2	487
VE601-3	501	507 3/8	505 3/8	494 1/2	495 1/2	496 1/2	500 3/8	495 1/2	497 1/2	497 1/2	497 1/2	497 1/2	497 1/2	495 1/2	496
VE610-3	510	516 3/8	514 3/8	503 1/2	504 1/2	505 1/2	509 3/8	504 1/2	506 1/2	506 1/2	506 1/2	506 1/2	506 1/2	504 1/2	505
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VE646-3	546	552 3/8	550 3/8	539 1/2	540 1/2	541 1/2	545 3/8	540 1/2	542 1/2	542 1/2	542 1/2	542 1/2	542 1/2	540 1/2	541
VE655-3	555	561 3/8	559 3/8	548 1/2	549 1/2	550 1/2	554 3/8	549 1/2	551 1/2	551 1/2	551 1/2	551 1/2	551 1/2	549 1/2	550
VE664-3	564	570 3/8	568 3/8	557 1/2	558 1/2	559 1/2	563 3/8	558 1/2	560 1/2	560 1/2	560 1/2	560 1/2	560 1/2	558 1/2	559
VE673-3	573	579 3/8	577 3/8	566 1/2	567 1/2	568 1/2	572 3/8	567 1/2	569 1/2	569 1/2	569 1/2	569 1/2	569 1/2	567 1/2	568
VE682-3	582	588 3/8	586 3/8	575 1/2	576 1/2	577 1/2	581 3/8	576 1/2	578 1/2	578 1/2	578 1/2	578 1/2	578 1/2	576 1/2	577
VE691-3	591	597 3/8	595 3/8	584 1/2	585 1/2	586 1/2	590 3/8	585 1/2	587 1/2	587 1/2	587 1/2	587 1/2	587 1/2	585 1/2	586
VE700-3	600	606 3/8	604 3/8	593 1/2	594 1/2	595 1/2	599 3/8	594 1/2	596 1/2	596 1/2	596 1/2	596 1/2	596 1/2	594 1/2	595
VE709-3	70	75 3/8	73 3/8	23 3/8	17 1/2										

FOR 19" PANELS		17½" SLOPED PANEL SPACE					FOR 24" PANELS	
Cat. No.	Overall Height Less Base	Front Vertical P.S.	Rear P.S.	Depth	Top Panel Opening	Use Top Panel*	Cat. No.	Use Top Panel*
SE-117-3	49½"	24½"	36¾"	23½"	13½"	TP-173	SE-217-3	TP-273
SE-117-8	49½"	24½"	35"	28½"	19½"	TP-178	SE-217-8	TP-278
10½" SLOPED PANEL SPACE								
SE-110-3	46¾"	28"	33¼"	23½"	16½"	TP-103	SE-210-3	TP-203
SE-110-8	46¾"	28"	31½"	28½"	21⅝"	TP-108	SE-210-8	TP-208

*Page 16



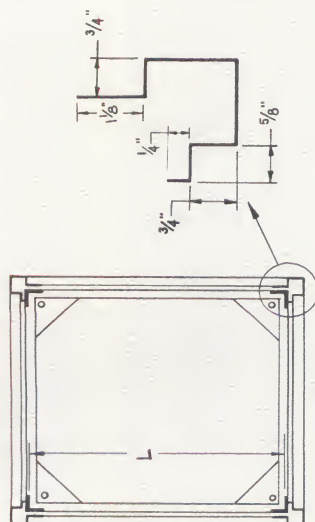
SLOPED FRAMES

FEATURES

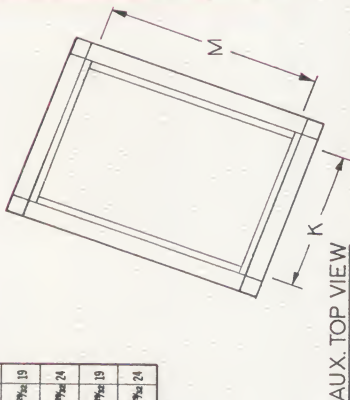
- Designed to be joined side-by-side and in conjunction with vertical racks in modular arrangements.
- Vertical adjustable panel mounting angles made of No. 11 gauge steel.
- Removable and adjustable horizontal angle supports.
- Base optional — order only if required (Page 15).
- Easily gasketed — all openings have return flanges on all 4 sides.
- Accommodates flush side panels and doors (Pages 13 and 14).
- 2 Depths — 23½" and 28½".
- 2 Panel Widths — 19" and 24".
- Made of No. 14 gauge cold rolled steel.
- Finished in Light Gray Enamel.

SLOPED FRAME SE SERIES 17½" SLOPE

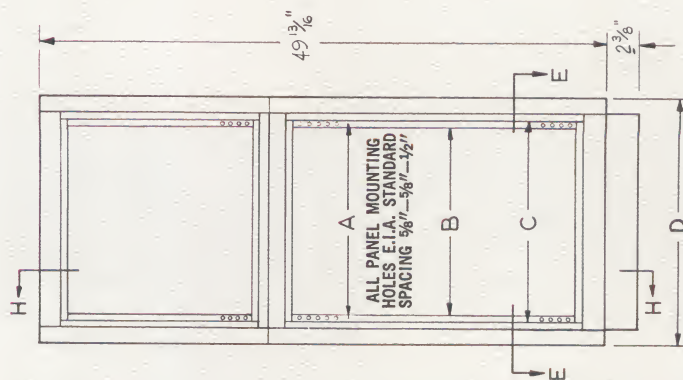
	A	B	C	D	F	G	J	K	L	M
SE-117-3	18 5/8	17 1/4	19 1/4	23 3/4	23 3/4	18 1/4	36 1/2	12 1/4	20 7/8	19
SE-217-3	23 3/4	22 1/4	24 1/4	28 3/4	23 3/4	18 1/4	36 1/2	12 1/4	20 7/8	24
SE-117-4	18 5/8	17 1/4	19 1/4	23 3/4	28 3/4	23 3/4	35	17 3/4	25 1/4	19
SE-217-4	23 3/4	22 1/4	24 1/4	28 3/4	28 3/4	23 3/4	35	17 3/4	25 1/4	24



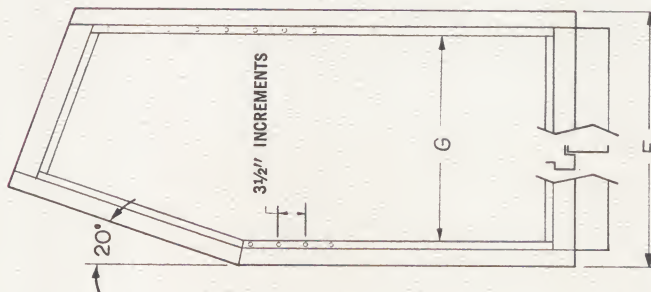
SECTION E-E



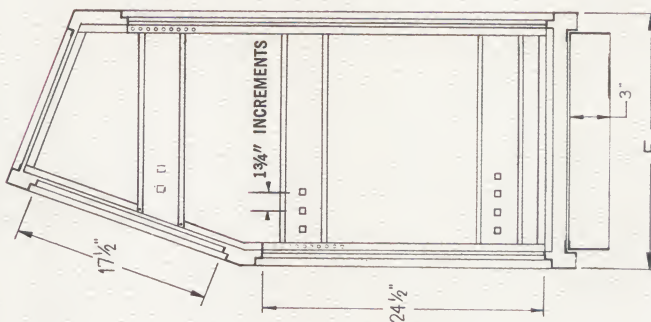
AUX. TOP VIEW



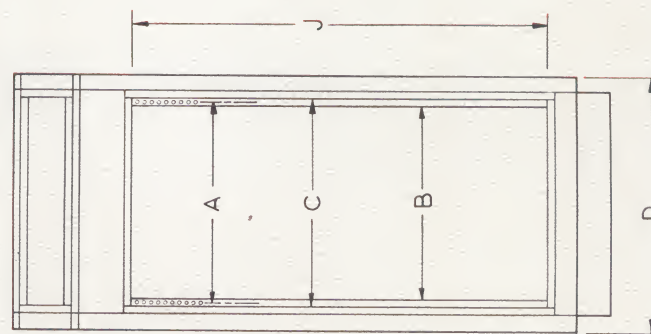
FRONT VIEW



SIDE VIEW

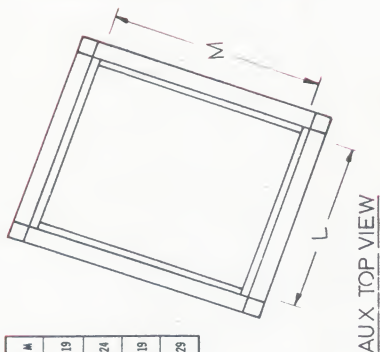


SECTION H-H

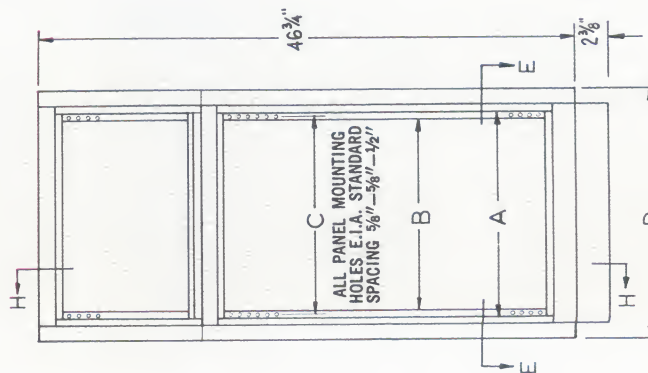
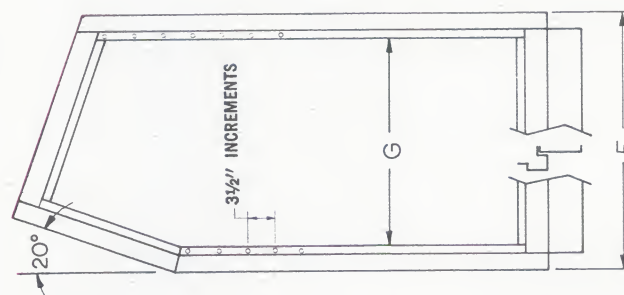
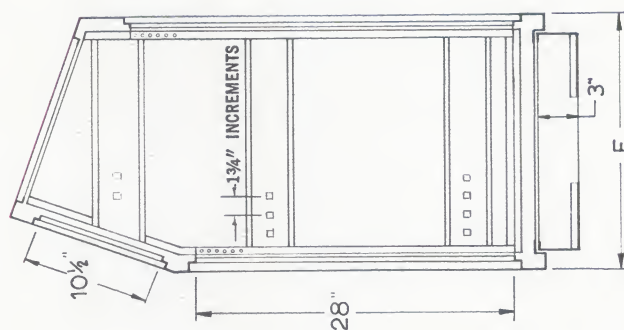
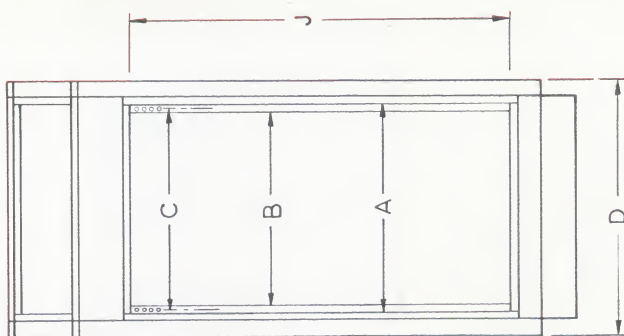
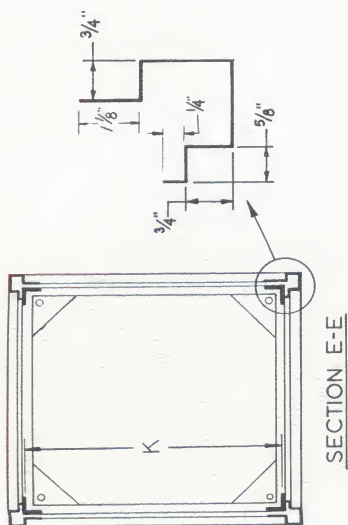


REAR VIEW

SLOPED FRAME SE SERIES 10 1/2" SLOPE

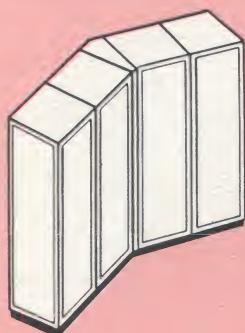


	A	B	C	D	F	G	J	K	L	M
SE-110-3	19	17 1/4	18 3/8	23 3/8	23 3/8	18 3/8	33 1/2	20 7/8	15 1/4	19
SE-210-3	24	22 1/4	23 3/8	28 3/8	23 3/8	18 3/8	33 1/2	20 7/8	15 1/4	24
SE-110-8	19	17 1/4	18 3/8	23 3/8	28 3/8	23 3/8	31 1/2	25 7/8	20 3/8	19
SE-210-8	24	22 1/4	23 3/8	28 3/8	28 3/8	23 3/8	31 1/2	25 7/8	20 3/8	29

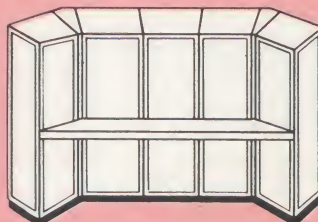
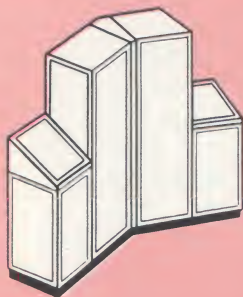


FEATURES

- For use in "U" shaped or semi-circular arrangements.
- Made of No. 14 gauge cold rolled steel.
- Supplied with rear panel which is removable from outside.
- Base optional — order only if required.
- Solid top and bottom.
- 60° and 90° wedge frames available on special order.
- Supplied with joining hardware for assembly to vertical frames.
- Finished in Light Gray Enamel.



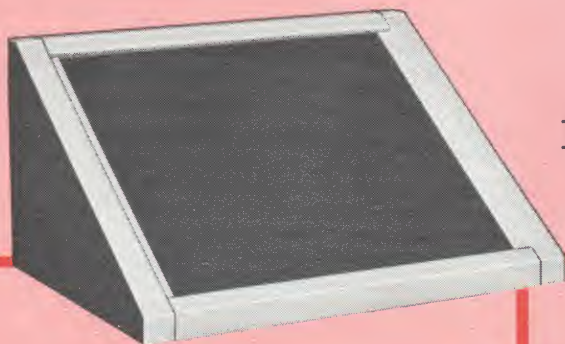
WEDGE FRAMES



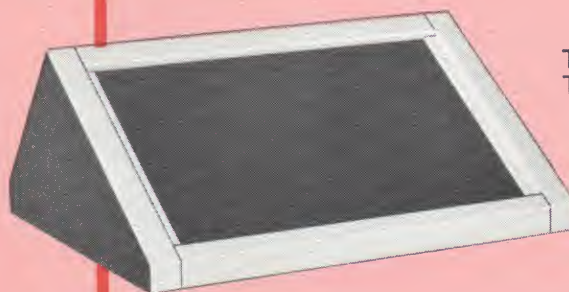
23 $\frac{1}{16}$ " DEEP		
For Use With Vertical Frame	30°	45°
VE-121-3 & 221-3	WF-321-3	WF-421-3
VE-128-3 & 228-3	WF-328-3	WF-428-3
VE-135-3 & 235-3	WF-335-3	WF-435-3
VE-143-3 & 243-3	WF-343-3	WF-443-3
VE-152-3 & 252-3	WF-352-3	WF-452-3
VE-161-3 & 261-3	WF-361-3	WF-461-3
VE-170-3 & 270-3	WF-370-3	WF-470-3
VE-178-3 & 278-3	WF-378-3	WF-478-3

28 $\frac{1}{16}$ " DEEP		
For Use With Vertical Frame	30°	45°
VE-121-8 & 221-8	WF-321-8	WF-421-8
VE-128-8 & 228-8	WF-328-8	WF-428-8
VE-135-8 & 235-8	WF-335-8	WF-435-8
VE-143-8 & 243-8	WF-343-8	WF-443-8
VE-152-8 & 252-8	WF-352-8	WF-452-8
VE-161-8 & 261-8	WF-361-8	WF-461-8
VE-170-8 & 270-8	WF-370-8	WF-470-8
VE-178-8 & 278-8	WF-378-8	WF-478-8

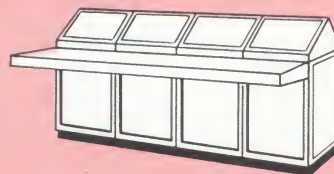
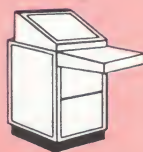
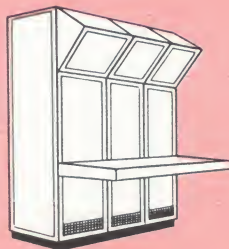
19" WIDE PANEL SPACE	Width	Front Panel	Bottom Panel	Rear Panel
TF-117	23 $\frac{5}{16}$ "	17 $\frac{1}{2}$ "	14"	8 $\frac{3}{4}$ "
TF-112	23 $\frac{3}{16}$ "	12 $\frac{1}{4}$ "	14"	7"
24" WIDE PANEL SPACE				
TF-217	28 $\frac{5}{16}$ "	17 $\frac{1}{2}$ "	14"	8 $\frac{3}{4}$ "
TF-212	28 $\frac{3}{16}$ "	12 $\frac{1}{4}$ "	14"	7"



TF-117
TF-217



TF-112
TF-212



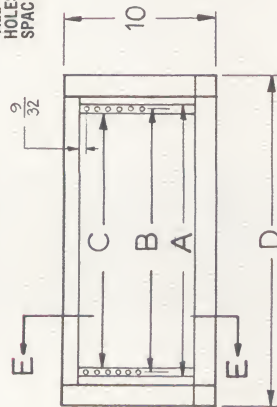
TURRETS

FEATURES

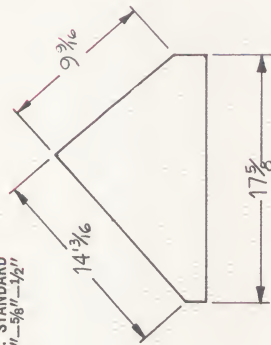
- Constructed of No. 16 gauge cold rolled steel.
- Can be used on benches and tables; positioned on top of desk height frames or vertically mounted.
- Mounts in a variety of positions, 35° or 55° slope.
- May be joined side by side.
- Supplied with all necessary hardware for mounting.
- Finished in Light Gray Enamel.

TURRET FRAME/TF SERIES

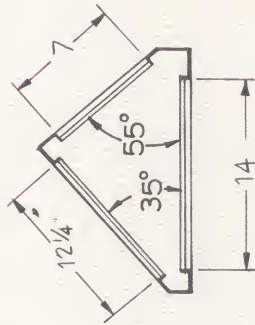
ALL PANEL MOUNTING
HOLES E.I.A. STANDARD
SPACING $\frac{5}{8}$ " - $\frac{5}{8}$ " - $\frac{1}{2}$ "



FRONT VIEW

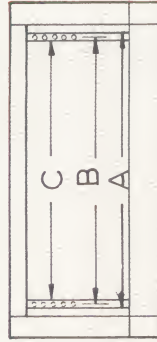


SIDE VIEW

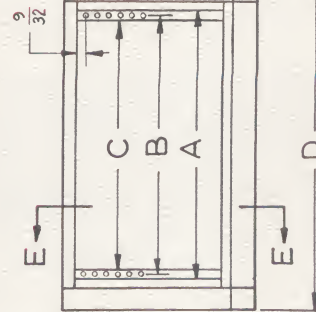


SECTION E-E

REAR VIEW

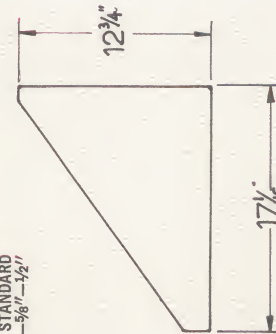


	A	B	C	D
TF-112	19	18 $\frac{3}{16}$	17 $\frac{13}{16}$	23 $\frac{3}{16}$
TF-212	24	23 $\frac{3}{16}$	22 $\frac{13}{16}$	28 $\frac{3}{16}$

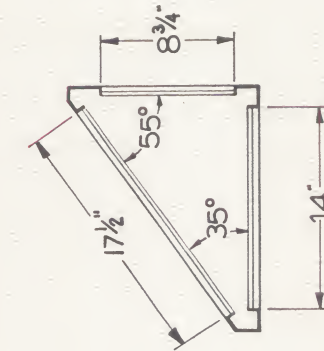


FRONT VIEW

ALL PANEL MOUNTING
HOLES E.I.A. STANDARD
SPACING $\frac{5}{8}$ " - $\frac{5}{8}$ " - $\frac{1}{2}$ "

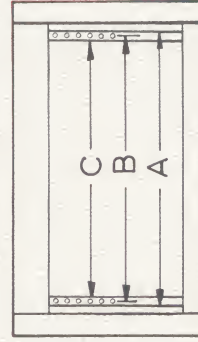


SIDE VIEW



SECTION E-E

REAR VIEW



	A	B	C	D
TF-117	19	18 $\frac{3}{16}$	17 $\frac{13}{16}$	23 $\frac{3}{16}$
TF-217	24	23 $\frac{3}{16}$	22 $\frac{13}{16}$	28 $\frac{3}{16}$

END PANELS FOR SLOPING FRAME				
USE FOR SLOPING FRAMES 23 $\frac{3}{8}$ " DEEP	SCREW-ON		HINGED	
	Blank	Louvred	Blank	Louvred
	RIGHT SIDE		RIGHT SIDE	
	EP-310R	EP-310RV	HEP-310R	HEP-310RV
SE-110-3 & 210-3	EP-317R	EP-317RV	HEP-317R	HEP-317RV
SE-117-3 & 217-3	LEFT SIDE		LEFT SIDE	
SE-110-3 & 210-3	EP-310L	EP-310LV	HEP-310L	HEP-310LV
SE-117-3 & 217-3	EP-317L	EP-317LV	HEP-317L	HEP-317LV
USE FOR SLOPING FRAMES 28 $\frac{3}{8}$ " DEEP	RIGHT SIDE		RIGHT SIDE	
	EP-810R	EP-810RV	HEP-810R	HEP-810RV
	EP-817R	EP-817RV	HEP-817R	HEP-817RV
	LEFT SIDE		LEFT SIDE	
SE-110-8 & 210-8	EP-810L	EP-810LV	HEP-810L	HEP-810LV
SE-117-8 & 217-8	EP-817L	EP-817LV	HEP-817L	HEP-817LV

FEATURES

- Constructed of No. 18 ga. cold rolled steel.
- Corners are welded for additional strength.
- Flush fitting within frame recess.
- Supplied with rubber bumpers. Panel can be efficiently gasketed when bumpers are removed.
- Assembled at factory.

2 TYPES AVAILABLE

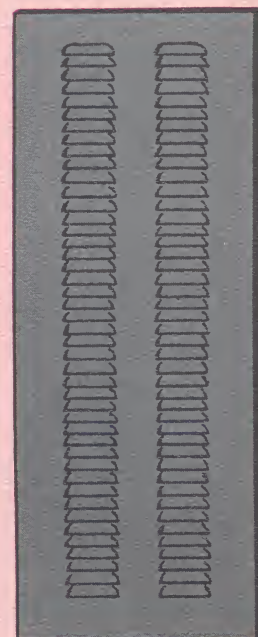
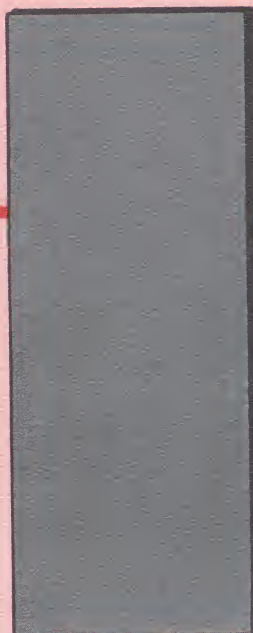
Screw-on Panel from the inside of frame so that screw heads are not visible.

Hinged Panel opens like a door. Reinforced with stiffener section. Fastened with flush latch. Panel may be easily removed in open position. Specify left or right hinging. On sloping panels, left side panels are hinged left and right side panels are hinged right only.

- Panels are available with filters and fan openings. Prices on request.
- Finished in Smoke Gray Enamel.

END PANELS

USE FOR VERTICAL FRAMES 23 $\frac{3}{8}$ " DEEP	END PANELS FOR VERTICAL FRAMES			
	SCREW-ON		HINGED	
	Blank	Louvred	Blank	Louvred
VE-121-3 & 221-3	EP-213	EP-213V	HEP-213	HEP-213V
VE-128-3 & 228-3	EP-283	EP-283V	HEP-283	HEP-283V
VE-135-3 & 235-3	EP-353	EP-353V	HEP-353	HEP-353V
VE-143-3 & 243-3	EP-433	EP-433V	HEP-433	HEP-433V
VE-152-3 & 252-3	EP-523	EP-523V	HEP-523	HEP-523V
VE-161-3 & 261-3	EP-613	EP-613V	HEP-613	HEP-613V
VE-170-3 & 270-3	EP-703	EP-703V	HEP-703	HEP-703V
VE-178-3 & 278-3	EP-783	EP-783V	HEP-783	HEP-783V
USE FOR VERTICAL FRAMES 28 $\frac{3}{8}$ " DEEP	SCREW-ON		HINGED	
	Blank	Louvred	Blank	Louvred
VE-121-8 & 221-8	EP-218	EP-218V	HEP-218	HEP-218V
VE-128-8 & 228-8	EP-288	EP-288V	HEP-288	HEP-288V
VE-135-8 & 235-8	EP-358	EP-358V	HEP-358	HEP-358V
VE-143-8 & 243-8	EP-438	EP-438V	HEP-438	HEP-438V
VE-152-8 & 252-8	EP-528	EP-528V	HEP-528	HEP-528V
VE-161-8 & 261-8	EP-618	EP-618V	HEP-618	HEP-618V
VE-170-8 & 270-8	EP-708	EP-708V	HEP-708	HEP-708V
VE-178-8 & 278-8	EP-788	EP-788V	HEP-788	HEP-788V



FOR SLOPING FRAMES—Rear		
Frame	Blank	Louvred
SE-117-3	DF-136	DF-136V
SE-117-8	DF-135	DF-135V
SE-110-3	DF-133	DF-133V
SE-110-8	DF-131	DF-131V
SE-217-3	DF-236	DF-236V
SE-217-8	DF-235	DF-235V
SE-210-3	DF-233	DF-233V
SE-210-8	DF-231	DF-231V

FOR VERTICAL FRAMES—Front and Rear		
Use For Frames	Blank	Louvred
VE-121-3 & VE-121-8	DF-121	DF-121V
VE-128-3 & VE-128-8	DF-128	DF-128V
VE-135-3 & VE-135-8	DF-135	DF-135V
VE-143-3 & VE-143-8	DF-143	DF-143V
VE-152-3 & VE-152-8	DF-152	DF-152V
VE-161-3 & VE-161-8	DF-161	DF-161V
VE-170-3 & VE-170-8	DF-170	DF-170V
VE-178-3 & VE-178-8	DF-178	DF-178V
VE-221-3 & VE-221-8	DF-221	DF-221V
VE-228-3 & VE-228-8	DF-228	DF-228V
VE-235-3 & VE-235-8	DF-235	DF-235V
VE-243-3 & VE-243-8	DF-243	DF-243V
VE-252-3 & VE-252-8	DF-252	DF-252V
VE-261-3 & VE-261-8	DF-261	DF-261V
VE-270-3 & VE-270-8	DF-270	DF-270V
VE-278-3 & VE-278-8	DF-278	DF-278V



WHEN ORDERING DOORS SPECIFY
LEFT OR RIGHT HINGING



LEFT
HINGING



RIGHT
HINGING

DOORS

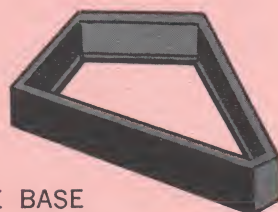
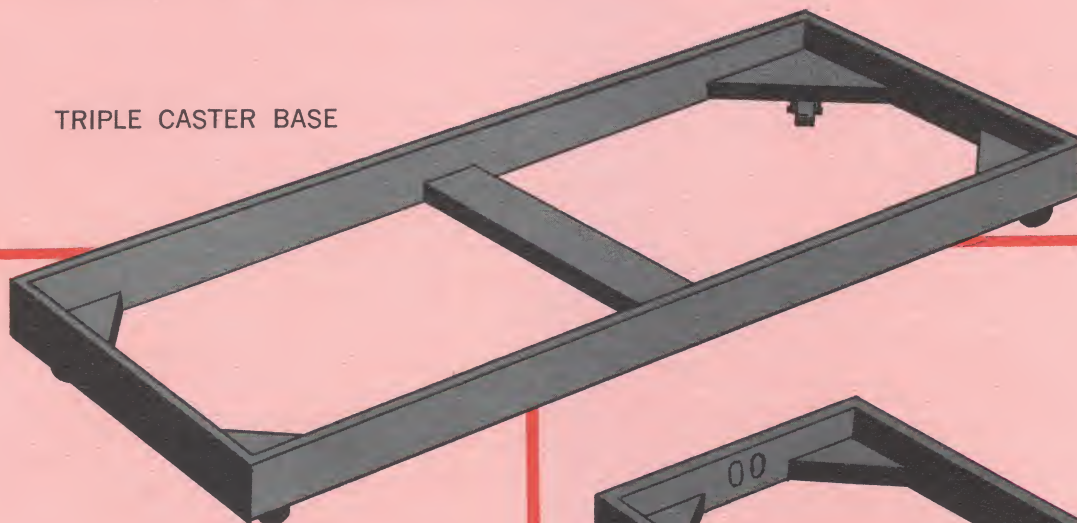
- Flush mounted within frame recess — front or rear
- Constructed of No. 18 gauge cold rolled steel reinforced with stiffener section and welded corners.
- Supplied with satin finish locking handle and positive closure; 2 point locking mechanism.
- Removable pin on hinge permits door to be removed in open position.
- Rubber bumpers on door and frame prevent marring of painted surfaces. Door can be efficiently gasketed when bumpers are removed.
- Doors are designed to be reversed, if necessary, on frames with panel spaces of 43 $\frac{3}{4}$ " or larger by simply removing door and reversing the location of the mounting hardware.
- Doors are available with filters and fan openings — Prices on request.
- Finished in Smoke Gray Enamel.



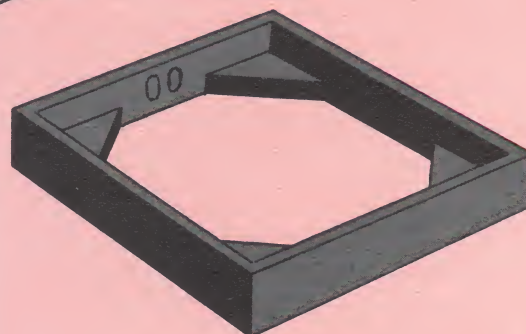
BASES					
USE FOR FRAMES		RE-CESSSED BASE	CASTER BASES		
Width	Depth		Single Width	Double Width	Triple Width
23 $\frac{3}{16}$ "	23 $\frac{3}{16}$ "	PB-33	CB-233	CB-433	CB-633
23 $\frac{3}{16}$ "	28 $\frac{3}{16}$ "	PB-38	CB-238	CB-438	CB-638
28 $\frac{3}{16}$ "	23 $\frac{3}{16}$ "	PB-83	CB-283	CB-483	CB-683
28 $\frac{3}{16}$ "	28 $\frac{3}{16}$ "	PB-88	CB-288	CB-488	CB-688

WEDGE BASES	
FOR WEDGE FRAMES	CAT. NO.
30° — 23 $\frac{3}{16}$ " D	WB-30-3
45° — 23 $\frac{3}{16}$ " D	WB-45-3
30° — 28 $\frac{3}{16}$ " D	WB-30-8
45° — 28 $\frac{3}{16}$ " D	WB-45-8

TRIPLE CASTER BASE



WEDGE BASE



PONTOON BASE

CMP frames are designed to accommodate two different types of bases.

- Recessed Type Pontoon Base: Fits into bottom recess of frames. Allows toe space on all four sides. Made of No. 14 gauge cold rolled steel. Gussets have provision for floor levellers or mounting to floor. Mounting holes for duplex receptable.
- Caster Bases: Fits flush under frame supplied with four 3" dia. heavy duty swivel hard rubber wheel casters. Available in single, double and triple widths.
- Finished in Light Gray Enamel.

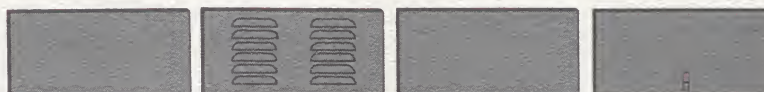
Caster bases may also be ordered:

1. Without casters: to utilize flush bases in single, double and triple width in place of pontoon bases — if required.
2. With 4" dia. casters. Optional at additional cost.
3. With 3" dia. casters and foot lock. Optional at additional cost.

BASES

TOP PANELS ■ Supplied with rubber bumpers ■ Easily gasketed ■ Finished in Smoke Gray Enamel

TOP PANELS FOR VERTICAL FRAMES



USE FOR FRAME		Blank	Louvred	Plastic Laminated	Lift Door
Width	Depth				
23 $\frac{5}{16}$ "	23 $\frac{5}{16}$ "	TP-13	TP-13V	TP-13F	TP-13H
23 $\frac{1}{16}$ "	28 $\frac{1}{16}$ "	TP-18	TP-18V	TP-18F	TP-18H
28 $\frac{1}{16}$ "	23 $\frac{5}{16}$ "	TP-23	TP-23V	TP-23F	TP-23H
28 $\frac{1}{16}$ "	28 $\frac{1}{16}$ "	TP-28	TP-28V	TP-28F	TP-28H

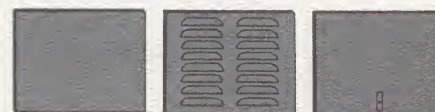
TOP PANEL WITH HOLE FOR MOUNTING FAN



FRAME DIMENSIONS W D	FOR FANS			
	FA-165 FA-200 FA-300	FA-400	FA-550	FA-750
23 $\frac{5}{16}$ " X 23 $\frac{5}{16}$ "	TP-13-6	TP-13-8	TP-13-9	TP-13-10
23 $\frac{5}{16}$ " X 28 $\frac{1}{16}$ "	TP-18-6	TP-18-8	TP-18-9	TP-18-10
28 $\frac{1}{16}$ " X 23 $\frac{5}{16}$ "	TP-23-6	TP-23-8	TP-23-9	TP-23-10
28 $\frac{1}{16}$ " X 28 $\frac{1}{16}$ "	TP-28-6	TP-28-8	TP-28-9	TP-28-10

TOP PANELS

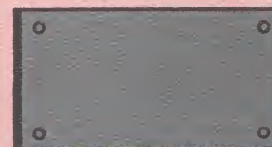
TOP PANELS FOR SLOPING FRAMES



For	Blank	Louvred	Lift Door
SE-117-3	TP-173	TP-173V	TP-173H
SE-117-8	TP-178	TP-178V	TP-178H
SE-110-3	TP-103	TP-103V	TP-103H
SE-110-8	TP-108	TP-108V	TP-108H
SE-217-3	TP-273	TP-273V	TP-273H
SE-217-8	TP-278	TP-278V	TP-278H
SE-210-3	TP-203	TP-203V	TP-203H
SE-210-8	TP-208	TP-208V	TP-208H



Flat Panel No. 16 ga. with four mounting holes to close bottom opening in frame. Finished in Light Gray Enamel.



FRAME DIMENSIONS	CAT. NO.
23 $\frac{5}{16}$ " X 23 $\frac{5}{16}$ "	BP-33
23 $\frac{5}{16}$ " X 28 $\frac{1}{16}$ "	BP-38
28 $\frac{1}{16}$ " X 23 $\frac{5}{16}$ "	BP-83
28 $\frac{1}{16}$ " X 28 $\frac{1}{16}$ "	BP-88

BOTTOM PANELS

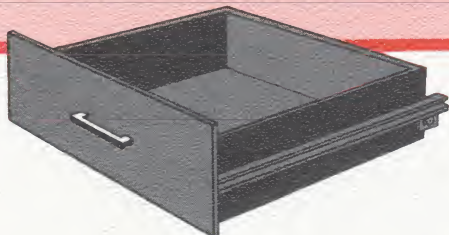
STANDARD PANELS AND FLUSH DOORS

Size	Steel 5/8 x 19" Formed Panel Blank	Steel 5/8 x 19" Formed Panel Louvred	Steel 5/8 x 24" Formed Panel Blank	Steel 5/8 x 24" Formed Panel Louvred	Aluminum 1/8 x 19" Blank Panel	Aluminum 1/8 x 24" Blank Panel	Flush Door 5/8 x 19" Blank	Flush Door 5/8 x 19" Louvred	Flush Door 5/8 x 24" Blank	Flush Door 5/8 x 24" Louvred
1 3/4"	SP-1	—	SP-124	—	AP-1	AP-124	—	—	—	—
3 1/2"	SP-3	—	SP-324	—	AP-3	AP-324	—	—	—	—
5 1/4"	SP-5	—	SP-524	—	AP-5	AP-524	—	—	—	—
7"	SP-7	SP-7V	SP-724	SP-724V	AP-7	AP-724	—	—	—	—
8 3/4"	SP-8	SP-8V	SP-824	SP-824V	AP-8	AP-824	—	—	—	—
10 1/2"	SP-10	SP-10V	SP-1024	SP-1024V	AP-10	AP-1024	FD-10	FD-10V	FD-1024	FD-1024V
12 1/4"	SP-12	SP-12V	SP-1224	SP-1224V	AP-12	AP-1224	FD-12	FD-12V	FD-1224	FD-1224V
14"	SP-14	SP-14V	SP-1424	SP-1424V	AP-14	AP-1424	FD-14	FD-14V	FD-1424	FD-1424V
15 3/4"	SP-15	SP-15V	SP-1524	SP-1524V	AP-15	AP-1524	—	—	—	—
17 1/2"	SP-17	SP-17V	SP-1724	SP-1724V	AP-17	AP-1724	FD-17	FD-17V	FD-1724	FD-1724V
19 1/4"	SP-19	SP-19V	SP-1924	SP-1924V	AP-19	AP-1924	—	—	—	—
21"	SP-21	SP-21V	SP-2124	SP-2124V	AP-21	AP-2124	FD-21	FD-21V	FD-2124	FD-2124V
24 1/2"	SP-24	SP-24V	SP-2424	SP-2424V	AP-24	AP-2424	FD-24	FD-24V	FD-2424	FD-2424V
28"	SP-28	SP-28V	SP-2824	SP-2824V	AP-28	AP-2824	FD-28	FD-28V	FD-2824	FD-2824V
35"	SP-35	SP-35V	SP-3524	SP-3524V	AP-35	AP-3524	FD-35	FD-35V	FD-3524	FD-3524V
36 3/4"	SP-36	SP-36V	SP-3624	SP-3624V	—	—	—	—	—	—
43 3/4"	SP-43	SP-43V	SP-4324	SP-4324V	—	—	—	—	—	—
52 1/2"	SP-52	SP-52V	SP-5224	SP-5224V	—	—	—	—	—	—
61 1/4"	SP-61	SP-61V	SP-6124	SP-6124V	—	—	—	—	—	—
70"	SP-70	SP-70V	SP-7024	SP-7024V	—	—	—	—	—	—
78 3/4"	SP-78	SP-78V	SP-7824	SP-7824V	—	—	—	—	—	—

DRAWERS

- Available in 4 heights
- Made of No. 16 gauge steel
- Front panel 5/8" formed to conform with panels
- Handsome satin finish pull handle
- 75 lb. capacity
- Mounts to front and rear angles

FOR 19" PANEL WIDTH					
For 23 3/8" Deep Frames	Panel Height	Inside Width	Inside Height	Inside Depth	For 28 3/8" Deep Frames
DR-3	3 1/2"	16 1/4"	2 3/4"	16"	DR-38
DR-7	7"	16 1/4"	6"	16"	DR-78
DR-10	10 1/2"	16 1/4"	8"	16"	DR-108
DR-14	14"	16 1/4"	8"	16"	DR-148
FOR 24" PANEL WIDTH					
For 23 3/8" Deep Frames	Panel Height	Inside Width	Inside Height	Inside Depth	For 28 3/8" Deep Frames
DR-3-24	3 1/2"	21 1/4"	2 3/4"	16"	DR-38-24
DR-7-24	7"	21 1/4"	6"	16"	DR-78-24
DR-10-24	10 1/2"	21 1/4"	8"	16"	DR-108-24
DR-14-24	14"	21 1/4"	8"	16"	DR-148-24



FLUSH DOORS

- Mounts to panel mounting angles
- Available blank or louvred
- Fastened with captive screws
- Mounts on left or right hinging
- Made of No. 16 gauge steel



ACCESSORIES

FINISHED IN SMOKE GRAY ENAMEL

STANDARD PANELS

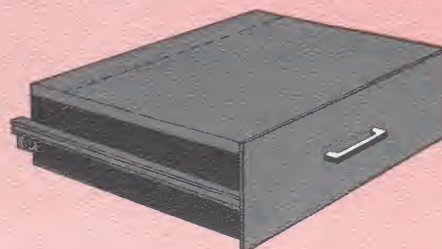
5/8" Deep — formed 19" and 24" Steel 16 ga.
 5/8" Deep — formed louvred 19" and 24" steel
 16 ga.
 1/8" Aluminum flat — 19" and 24"



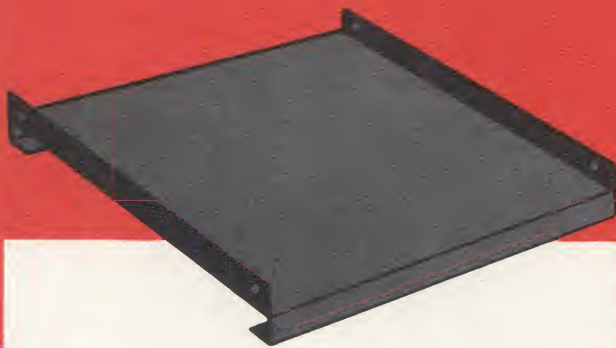
RETRACTABLE SLIDING SHELF AND DRAWER

- Takes minimum of 3 1/2" panel space
- Combination writing surface and storage drawer
- Plastic laminated hinged writing surface

For Frames — 19" Panel Width	23 3/8" Deep 28 3/8" Deep	RS-3 RS-38
For Frames — 24" Panel Width	23 3/8" Deep 28 3/8" Deep	RS-324 RS-324-8



Length	Clearance Holes Both Legs	Tapped on one Leg Clearance Holes other Leg
21"	MA-21	TMA-21
24½"	MA-24	TMA-24
28"	MA-28	TMA-28
35"	MA-35	TMA-35
36¾"	MA-36	TMA-36
43¾"	MA-43	TMA-43
52½"	MA-52	TMA-52
61¼"	MA-61	TMA-61
70"	MA-70	TMA-70
78¾"	MA-78	TMA-78



SHELVES

- Made of No. 16 gauge steel
- Mount to inside leg of panel mounting angle
- May be mounted to practically any vertical position
- Finish in Light Gray Enamel

Cat. No.	To fit Frame	
	Width	Depth
SH-33	23⅝"	x 23⅝"
SH-38	23⅝"	x 28⅝"
SH-83	28⅝"	x 23⅝"
SH-88	28⅝"	x 28⅝"

PANEL MOUNTING ANGLES

- 1¼" x 1¼" of No. 11 gauge steel
- ¼" dia. clearance holes on E-I-A spacings ⅝"-⅝"-½" on both legs
- Sold in pairs—complete with mounting hardware
- One leg tapped 10/32 optional at additional cost
- Finished in Light Gray Enamel



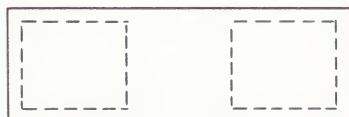
CHASSIS AND EQUIPMENT SUPPORTS

- Made of No. 11 gauge steel
- Mount to inside leg of panel mounting angle
- May be mounted to practically any vertical position
- Finished in Light Gray Enamel

Cat. No.	
SS-23	For 23⅝" deep racks
SS-28	For 28⅝" deep racks



- Non-reflective, smudge-proof, slate finish laminated plastic
- Fits on top of desk or counter height frames
- Overlaps front, back and sides
- Self edged on all 4 sides
- 3" high
- Supplied with all necessary hardware for mounting



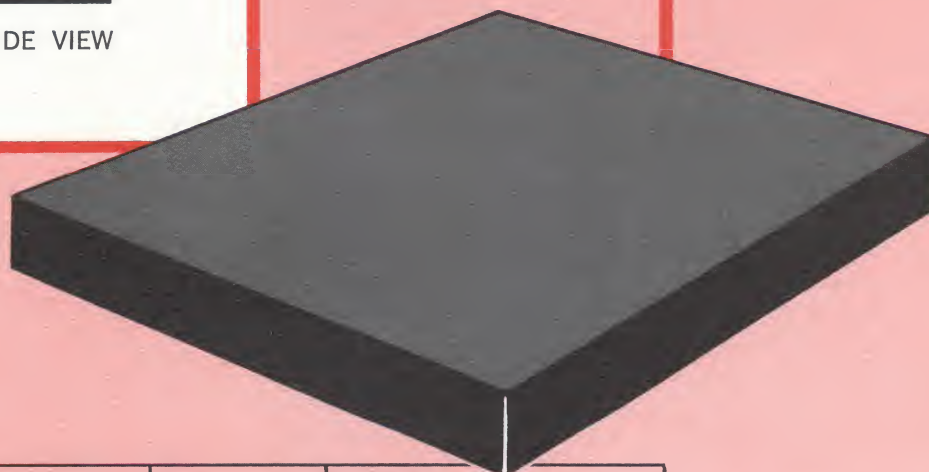
TOP VIEW
TRIPLE WIDTH



SIDE VIEW

**ONE PIECE
PLASTIC
LAMINATED
DESK**

**OR
COUNTER
TOPS**



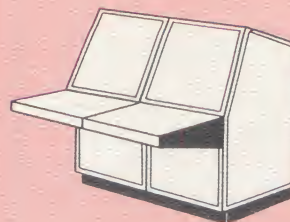
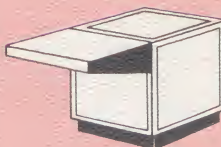
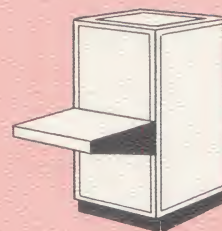
Use For Frames	Single Width	Double Width	Triple Width
23 $\frac{3}{8}$ " Wide x 23 $\frac{3}{8}$ " Deep	FCT-19-S	FCT-19-D	FCT-19-T
23 $\frac{3}{8}$ " Wide x 28 $\frac{3}{8}$ " Deep	FCT-198-S	FCT-198-D	FCT-198-T
28 $\frac{3}{8}$ " Wide x 23 $\frac{3}{8}$ " Deep	FCT-24-S	FCT-24-D	FCT-24-T
28 $\frac{3}{8}$ " Wide x 28 $\frac{3}{8}$ " Deep	FCT-248-S	FCT-248-D	FCT-248-T

FOR SLOPING FRAMES						
For Frames	15" Deep Tops			18" Deep Tops		
	Single Width	Double Width	Triple Width	Single Width	Double Width	Triple Width
23 $\frac{5}{8}$ " Wide	WT-151-S	WT-151-D	WT-151-T	WT-181-S	WT-181-D	WT-181-T
28 $\frac{5}{8}$ " Wide	WT-251-S	WT-251-D	WT-251-T	WT-281-S	WT-281-D	WT-281-T
FOR VERTICAL FRAMES WITH PANEL HEIGHT OF 21" & 28"						
23 $\frac{5}{8}$ " Wide	WT-153-S	WT-153-D	WT-153-T	WT-183-S	WT-183-D	WT-183-T
28 $\frac{5}{8}$ " Wide	WT-253-S	WT-253-D	WT-253-T	WT-283-S	WT-283-D	WT-283-T
FOR VERTICAL FRAMES WITH PANEL HEIGHT OF 35" OR HIGHER						
23 $\frac{5}{8}$ " Wide	WT-152-S	WT-152-D	WT-152-T	WT-182-S	WT-182-D	WT-182-T
28 $\frac{5}{8}$ " Wide	WT-252-S	WT-252-D	WT-252-T	WT-282-S	WT-282-D	WT-282-T



- Non-reflective, smudge-proof, slate finish laminated plastic
- No internal obstruction
- 15" and 18" depth
- Supplied with all necessary hardware for mounting

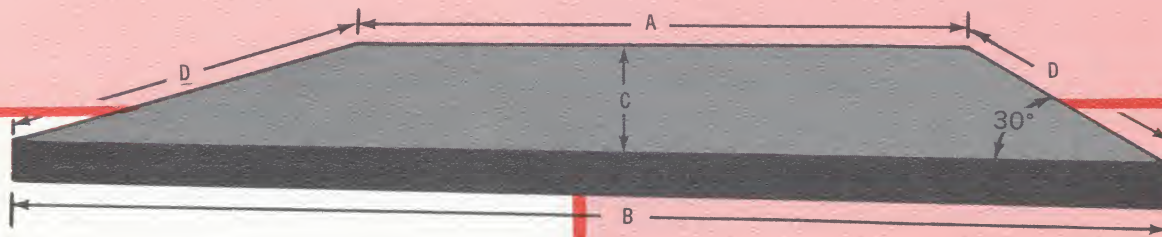
PLASTIC LAMINATED WORK WRITING TOPS



FOR USE WITH "U" SHAPED OR SEMI-CIRCULAR CONSOLE ARRANGEMENTS
 Made of non-reflective, smudge-proof slate finish laminated plastic

ORDERING INFORMATION

For use with sloped frames add suffix -1
 For use with vertical frames 35" panel space or higher add suffix -2
 For use with vertical frames 21" & 28" panel space or higher add suffix -3
 For use with combination of sloped frames and vertical frames and submit sketch of planned console add suffix -4
 The shelves above are only a few of the possible configurations available with the CMP enclosure system. The variety is unlimited. Submit sketches of proposed plastic laminated shelves for quotation. A variety of colors are also available.



FOR USE WITH 30° WEDGES

CAT NO.	No. of Frames	A	B	C	D
For 19" Wide					
FWA 419-30	4	46 ⁵ / ₈ "	89 ⁵ / ₈ "	12 ³ / ₈ "	24 ¹ / ₁₆ "
FWA 519-30	5	70"	113"	12 ³ / ₈ "	24 ¹ / ₁₆ "
FWA 619-30	6	93 ¹ / ₄ "	136 ¹ / ₄ "	12 ³ / ₈ "	24 ¹ / ₁₆ "
For 24" Wide					
FWA 424-30	4	56 ⁵ / ₈ "	108 ¹ / ₄ "	14 ⁷ / ₈ "	29 ¹ / ₁₆ "
FWA 524-30	5	85"	136 ⁵ / ₈ "	14 ⁷ / ₈ "	29 ¹ / ₁₆ "
FWA 624-30	6	113 ¹ / ₄ "	164 ⁷ / ₈ "	14 ⁷ / ₈ "	29 ¹ / ₁₆ "

PLASTIC LAMINATED CONSOLE SHELVES

CAT NO.	No. of Frames	A	B	C	D
For 19" Wide					
FWA 419-45	4	46 ⁵ / ₈ "	81 ⁵ / ₈ "	17 ¹ / ₂ "	24 ¹ / ₁₆ "
FWA 519-45	5	70"	105"	17 ¹ / ₂ "	24 ¹ / ₁₆ "
FWA 619-45	6	93 ¹ / ₄ "	128 ¹ / ₄ "	17 ¹ / ₂ "	24 ¹ / ₁₆ "
For 24" Wide					
FWA 424-45	4	56 ⁵ / ₈ "	98 ⁵ / ₈ "	21"	29 ¹ / ₁₆ "
FWA 524-45	5	85"	127"	21"	29 ¹ / ₁₆ "
FWA 624-45	6	113 ¹ / ₄ "	155 ¹ / ₄ "	21"	29 ¹ / ₁₆ "



FOR USE WITH 45° WEDGES

- 75 lb. & 175 lbs. load ratings (fully extended)
- Mounts standard 17" chassis for 19" panel space or 22" wide chassis for 24" panel space
- All models have "quick disconnect" feature allowing for removal of chassis
- Positive extended locking position
- Detent model tilts & locks at 90° up or down
- Slides provided with all necessary mounting hardware
- Standard (non detent) models supplied with tilting hardware
- Rear bracket has adjustment of 2 inches
- Slide mounts to panel mounting angles
- Material & finish: Slide members — cold rolled steel, zinc plated per MIL-QQ-2-325 class 2 Type 11 and olive drab iridite coated
- Lubrication: Molybdenum disulphide with epoxy base per MIL-L-22273

STEEL SOLID BEARING CHASSIS

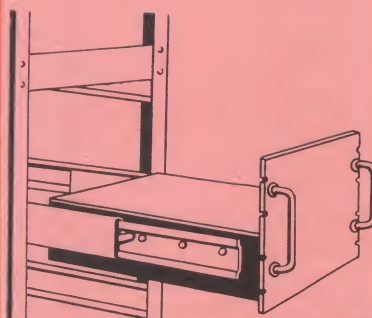
SLIDES



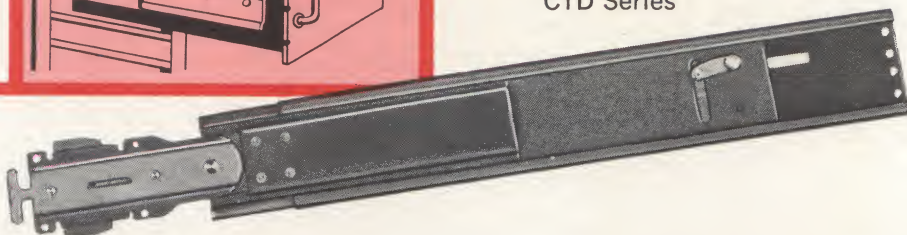
CT Series



CTH Series



CTD Series



Cat. No.	Length of slide	Load Rating
CT-16 CT-20 CT-24	16" 20" 24"	75 lbs. 75 lbs. 75 lbs.
CTH-16 CTH-20 CTH-24	16" 20" 24"	175 lbs. 175 lbs. 175 lbs.
CTD-16* CTD-20* CTD-24*	16" 20" 24"	175 lbs.* 175 lbs.* 175 lbs.*

*Detent and Disconnect Models

FEATURES

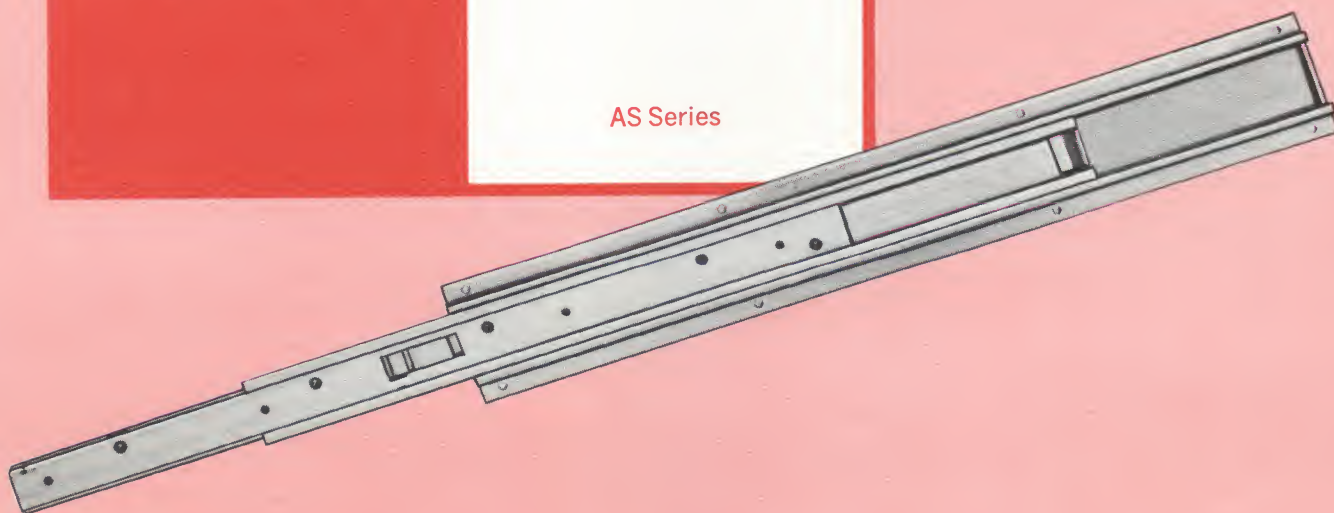
- 100 lb. load rating (fully extended)
- "Quick disconnect" feature
- Locks in extended position
- Rear bracket has adjustment of 2 inches
- Mounts to panel mounting angles
- Provided with all necessary mounting hardware
- Material and finish: Slide members high strength aluminum alloy. Ferrous parts, carbon steel finish per QQ-P-416 or stainless steel

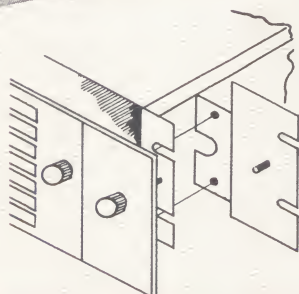
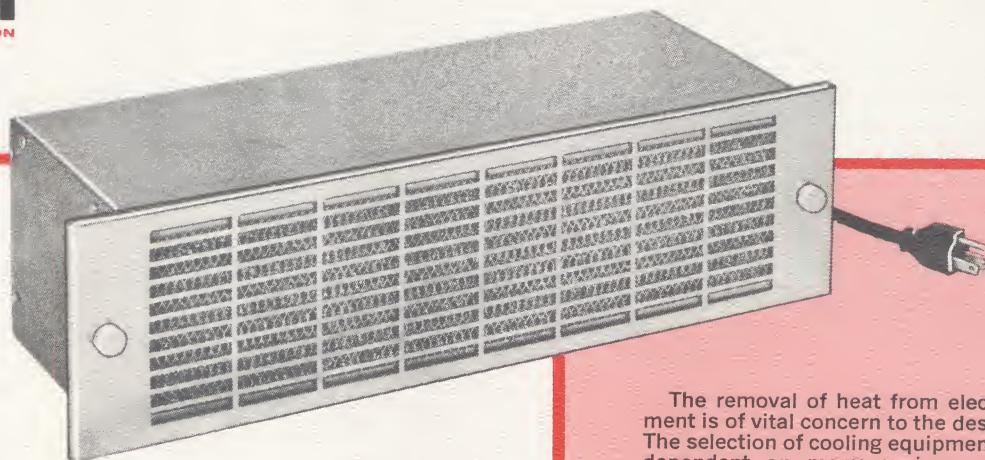
ALUMINUM

BALL BEARING SLIDES

Cat. No.	Length of slide
AS-16	16"
AS-20	20"
AS-24	24"

AS Series





24" ADAPTER

Permits mounting any 19" CMP Blower in a cabinet designed for 24" panels. A 16 gauge flange has EIA notching at each end, bolts to channel and to 19" blower flanges. When installed, a rectangular plate with captive nut covers adapter and is finished identically with adjoining grille. These adapters are non-structural and blower must be supported at rear.

Cat. No.	Panel Height	Cat. No.	Panel Height
BA-324	3½"	BA-824	8¾"
BA-524	5¼"	BA-1024	10½"
BA-724	7"		

PACKAGED BLOWERS

The removal of heat from electronic equipment is of vital concern to the design engineer. The selection of cooling equipment is of course dependent on many environmental factors. The most popular and effective method, from the standpoint of cost, space, and power is "forced air cooling."

SPECIFICATIONS

Motors

- Double-shielded precision ball bearing
- Bearings meet Fed. Spec. #FF-B-171A
- Lubricant used has range from -29°C. to +148°C; providing protection exceeding Mil-G-3278 requirements under severe high temperature conditions
- 115 Volts, 50/60 cycle current standard
- All standard motors meet specification #CC-M-636A
- Permanently lubricated

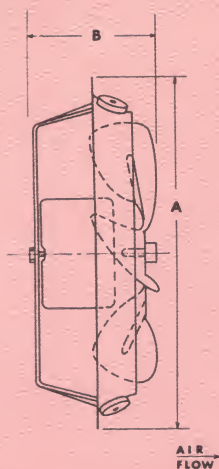
Filter

- Permanent
- Washable and reusable
- Multiple layers of knitted aluminum encased in aluminum channel frame

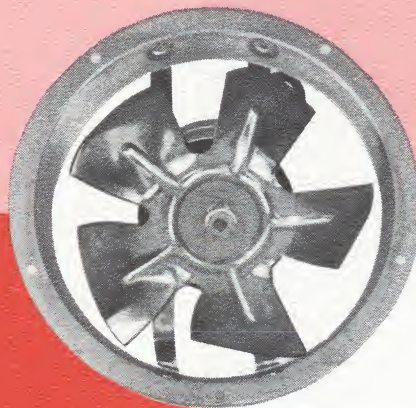
Front Grille

- Chrome plated C.R. Steel
- Knurled-head fasteners for easy removal
- Grille pattern: 65% open
- Blower case painted Gray Enamel over zinc chromate primer
- Rotating parts neoprene shock-mounted and isolated from enclosure
- Minimum of 36" type SJ 3-wire cord with molded plug included internally grounded, securely locked to case by strain-relief bushing
- Exhaust guards are supplied on blowers with scoop discharge wire.

Cat. No.	Panel Height	Depth	CFM at 0°	Speed	Amps	Watts	Discharge
BL-160	3½"	8¾"	160	1500	1.2	90	Back
BL-150	5¼"	7"	150	3000	1.5	120	Back-Scoop
BL-300	5¼"	7"	300	3000	1.0	90	Back-Scoop
BL-280	7"	10"	280	1500	.8	78	Back-Scoop
BL-375	7"	10"	375	3000	24	260	Back-Scoop
BL-405	8¾"	11"	405	1500	1.2	125	Back-Scoop
BL-500	8¾"	12"	500	1500	1.6	170	Top-Rear
BL-840	10½"	13¾"	840	1725	3.2	330	Top-Rear
BL-300-PC	5¼"	6¼"	300	3000	1.0	90	Broad for PC Boards



Cat. No.	CFM at 0	Blade Dia.	(A) Diameter	(B) Depth	Motor Speed	Amps.	Watts
FA-165	165	6½"	8½"	2⅞"	1650	.35	20
FA-220	220	6½"	8½"	3¼"	1550	.37	25
FA-300	300	6½"	8½"	4⅛"	3000	.9	65
FA-400	400	8"	10½"	3⅞"	1460	.63	46
FA-550	550	9"	11½"	4⅜"	1600	1.4	90
FA-750	750	10"	12½"	4⅜"	1560	1.45	105

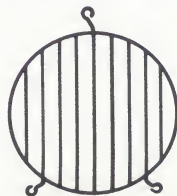


EXHAUST FANS

Designed for removing heat from racks.

- Fan and motor assembly is shock mounted to assure minimum noise and vibration
- Permanently lubricated ball bearings, shaded pole motors
- Provided with 24" heavy duty lead, stripped and soldered
- Motor single phase AC, 115 volt, 50/60 cycles
- Full range of mounting accessories available: grille, guard and sleeve

ACCESSORIES



For use with

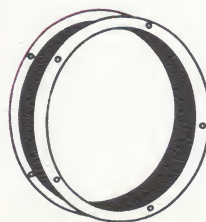
Cat. No.

FA-165
FA-220
FA-300
FA-400
FA-550
FA-750

GUARD

Cat. No.

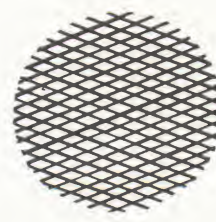
FG-6
FG-6
FG-6
FG-8
FG-9
FG-10



SLEEVE

Cat. No.

FS-6
FS-6
FS-6
FS-8
FS-9
FS-10



GRILLE

Cat. No.

FR-6
FR-6
FR-6
FR-8
FR-9
FR-10

ACCESSORIES



JOINING KIT FOR MULTIPLE ASSEMBLIES

- For joining frames side-by-side or front-to-back
- Kit consists of 4, 6, or 8 spacers and all necessary hardware for mounting
- Mounts easily to recessed flange on sides, or when mounting front-to-back, to panel mounting angles

Side-By-Side	Panel Space-Height	Front-to-Back
SK-4	21", 28", 35"	FK-4
SK-6	43¾", 52½", 61¼"	FK-6
SK-8	70", 78¾"	FK-8



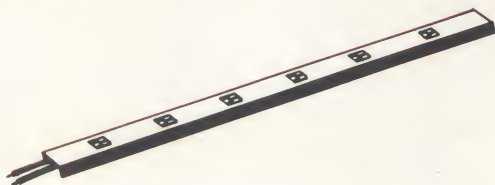
LIFTING EYE BOLT ASSEMBLY Cat. No. EB-4

- Kit consists of 4 eye bolts and threaded nut block
- Eye Bolts — ½"-13 with L.D. of 1⅞"
- Holes for eye bolts supplied in top of frame, at factory

"TOUCH UP" LACQUER

16 oz. pressurized spray can. Available in light gray and smoke gray.

Cat. No.	Finish
LAC-1	Light gray
LAC-2	Smoke gray

























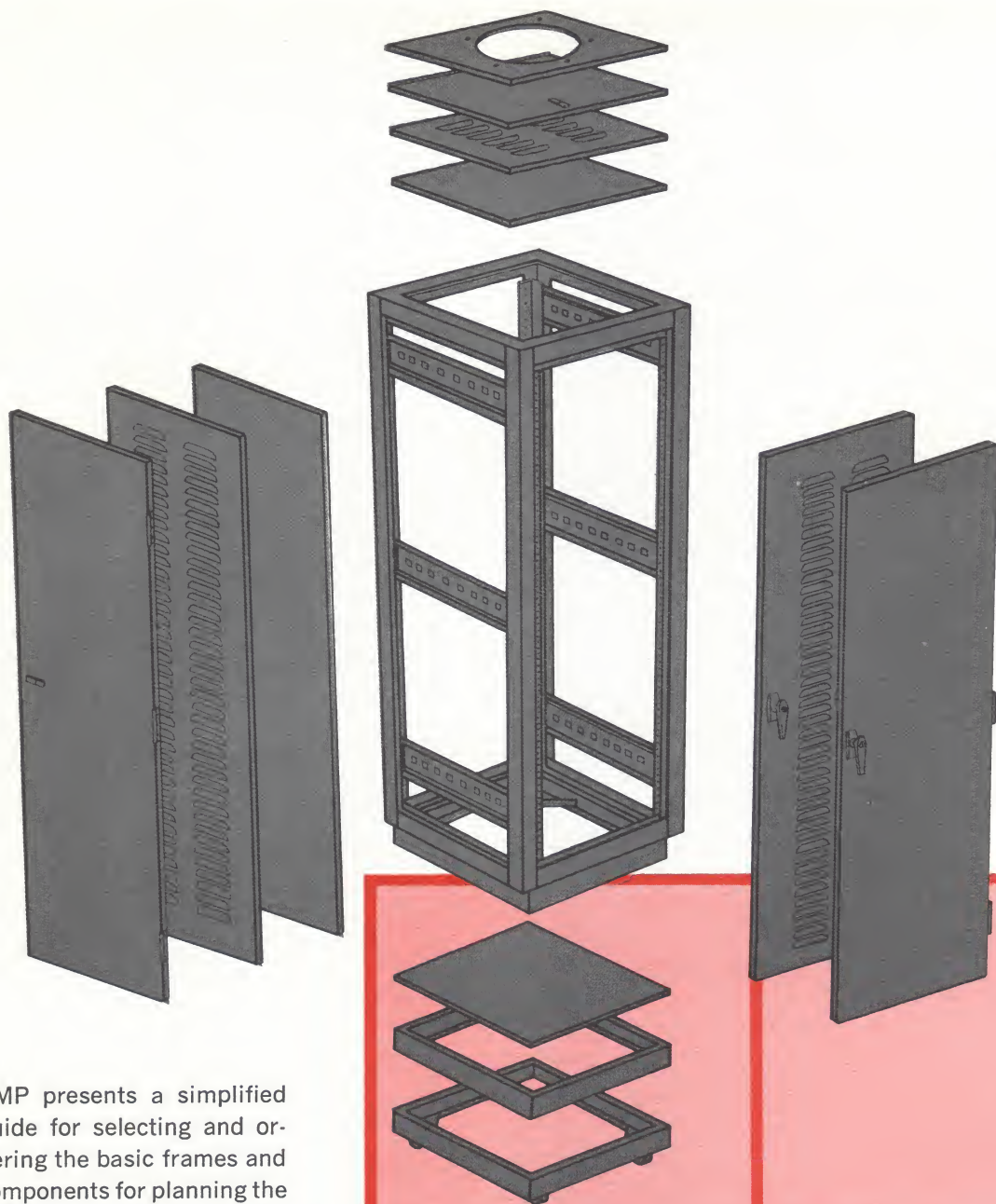
PLUGMOLD WIRED OUTLET STRIP

- ASA Standard 3-wire, single circuit, grounding
- Third Wire is insulated copper ground
- Used for 15 amp, 125 volt wiring
- UL approved
- Finished in Light Gray Enamel

Cat. No.	Length	No. of Outlets	Spacing
PM-36	36"	6	6"
PM-60	60"	10	6"
PM-72	72"	12	6"

HARDWARE

	Cat. No.	Item
	HW-1	Leveling Feet (set of 4)
	HW-2	Door Handle, Locking Assembly with 2 Keys
	HW-3	3 wire Duplex Receptacle for Pontoon Base
	HW-4	Package of 40 Phillips Head Screws & Tinnerman Speed Nuts for Mounting Panels
	HW-5	Handle for Drawers and Flush Doors
	HW-6	Nut Retainer ¼-20 for Angle Supports
	HW-7	Hex Head ¼-20 Machine Screw for Fastening Angles to Angle Supports
	HW-8	Twin Tinnerman Speed Nut for Fastening Hinges to Frame
	HW-9	Twin Tinnerman Speed Nut for Fastening Hinges to Door
	HW-10	Tinnerman Speed Nut for Fastening Side and Top Panels
	HW-11	Tinnerman Speed Nut for Fastening Angle Supports to Frame
	HW-12	Counter Sunk Phillips Head Screw for Mounting Hinges
	HW-13	10/32 x 1 ⅞" Machine Screw
	HW-14	10B-½ Phillips Head
	HW-15	6B-½ Phillips Head
	HW-16	10B-1⅝ Phillips Head
	HW-17	10B-2¼ Phillips Head
	HW-18	Door Bumpers
	HW-19	Drawer Slides
	HW-20	10B-1⅝ Phillips Head Screw for Mounting Panels
	HW-21	Tinnerman Speed Nut for Mounting Panels
	HW-22	Large Hartwell Latch for Hinged Side Panel



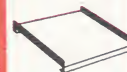
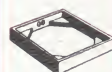
CMP presents a simplified guide for selecting and ordering the basic frames and components for planning the CMP system of modular packaging. The broad choice of various types of doors, panels, bases and other parts allow a wide latitude in designing your electronic enclosures.

ORDERING GUIDE

ORDERING GUIDE

FRAME NO.	PANEL SPACE		PANEL SCREW-ON	PANEL SCREW-ON LOUVRED	PANEL HINGED	PANEL HINGED LOUVRED
	H	W				
VE-121-3	21"	19"	EP-213	EP-213V	HEP-213	HEP-213V
VE-128-3	28"	19"	EP-283	EP-283V	HEP-283	HEP-283V
VE-135-3	35"	19"	EP-353	EP-353V	HEP-353	HEP-353V
VE-143-3	43 $\frac{3}{4}$ "	19"	EP-433	EP-433V	HEP-433	HEP-433V
VE-152-3	52 $\frac{1}{2}$ "	19"	EP-523	EP-523V	HEP-523	HEP-523V
VE-161-3	61 $\frac{1}{4}$ "	19"	EP-613	EP-613V	HEP-613	HEP-613V
VE-170-3	70"	19"	EP-703	EP-703V	HEP-703	HEP-703V
VE-178-3	78 $\frac{3}{4}$ "	19"	EP-783	EP-783V	HEP-783	HEP-783V
VE-221-3	21"	24"	EP-213	EP-213V	HEP-213	HEP-213V
VE-228-3	28"	24"	EP-283	EP-283V	HEP-283	HEP-283V
VE-235-3	35"	24"	EP-353	EP-353V	HEP-353	HEP-353V
VE-243-3	43 $\frac{3}{4}$ "	24"	EP-433	EP-433V	HEP-433	HEP-433V
VE-252-3	52 $\frac{1}{2}$ "	24"	EP-523	EP-523V	HEP-523	HEP-523V
VE-261-3	61 $\frac{1}{4}$ "	24"	EP-613	EP-613V	HEP-613	HEP-613V
VE-270-3	70"	24"	EP-703	EP-703V	HEP-703	HEP-703V
VE-278-3	78 $\frac{3}{4}$ "	24"	EP-783	EP-783V	HEP-783	HEP-783V
VE-121-8	21"	19"	EP-218	EP-218V	HEP-218	HEP-218V
VE-128-8	28"	19"	EP-288	EP-288V	HEP-288	HEP-288V
VE-135-8	35"	19"	EP-358	EP-358V	HEP-358	HEP-358V
VE-143-8	43 $\frac{3}{4}$ "	19"	EP-438	EP-438V	HEP-438	HEP-438V
VE-152-8	52 $\frac{1}{2}$ "	19"	EP-528	EP-528V	HEP-523	HEP-523V
VE-161-8	61 $\frac{1}{4}$ "	19"	EP-618	EP-618V	HEP-618	HEP-618V
VE-170-8	70"	19"	EP-708	EP-708V	HEP-708	HEP-708V
VE-178-8	78 $\frac{3}{4}$ "	19"	EP-788	EP-788V	HEP-788	HEP-788V
VE-221-8	21"	24"	EP-218	EP-218V	HEP-218	HEP-218V
VE-228-8	28"	24"	EP-288	EP-288V	HEP-288	HEP-288V
VE-235-8	35"	24"	EP-358	EP-358V	HEP-358	HEP-358V
VE-243-8	43 $\frac{3}{4}$ "	24"	EP-438	EP-438V	HEP-438	HEP-438V
VE-252-8	52 $\frac{1}{2}$ "	24"	EP-528	EP-528V	HEP-523	HEP-523V
VE-261-8	61 $\frac{1}{4}$ "	24"	EP-618	EP-618V	HEP-618	HEP-618V
VE-270-8	70"	24"	EP-708	EP-708V	HEP-708	HEP-708V
VE-278-8	78 $\frac{3}{4}$ "	24"	EP-788	EP-788V	HEP-788	HEP-788V

ORDERING GUIDE

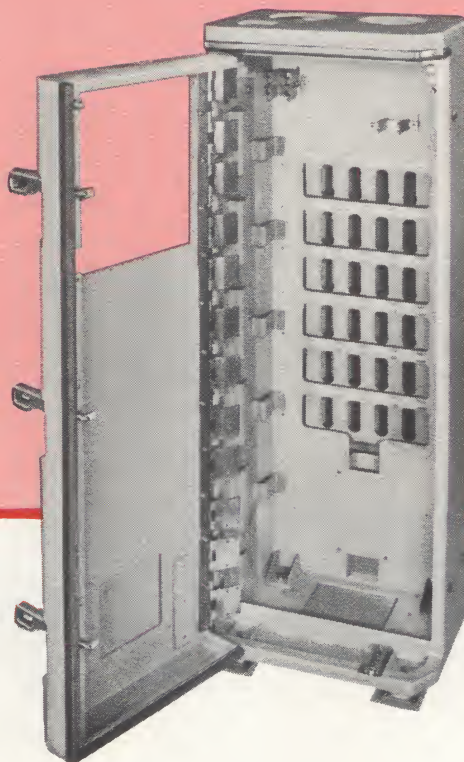
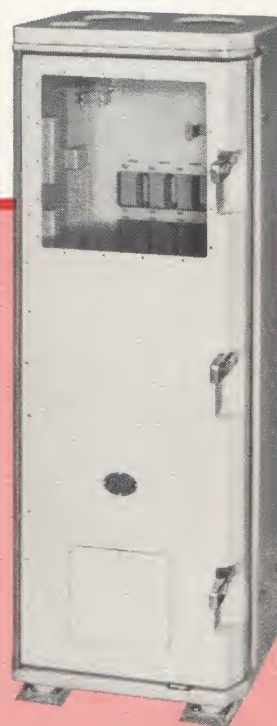


FRAME NO.	DOOR BLANK	DOOR LOUVRED	PONTOON BASE	CASTER BASE 3" DIA.	WORK-TOP 18" DEEP	CHASSIS SUPPORT	SHELVES
VE-121-3	DF-121	DF-121V	PB-33	CB-233-3	WT-183-S	SS-23	SH-33
VE-128-3	DF-128	DF-128V	PB-33	CB-233-3	WT-183-S	SS-23	SH-33
VE-135-3	DF-135	DF-135V	PB-33	CB-233-3	WT-182-S	SS-23	SH-33
VE-143-3	DF-143	DF-143V	PB-33	CB-233-3	WT-182-S	SS-23	SH-33
VE-152-3	DF-152	DF-152V	PB-33	CB-233-3	WT-182-S	SS-23	SH-33
VE-161-3	DF-161	DF-161V	PB-33	CB-233-3	WT-182-S	SS-23	SH-33
VE-170-3	DF-170	DF-170V	PB-33	CB-233-3	WT-182-S	SS-23	SH-33
VE-178-3	DF-178	DF-178V	PB-33	CB-233-3	WT-182-S	SS-23	SH-33
VE-221-3	DF-221	DF-221V	PB-83	CB-283-3	WT-283-S	SS-23	SH-83
VE-228-3	DF-228	DF-228V	PB-83	CB-283-3	WT-283-S	SS-23	SH-83
VE-235-3	DF-235	DF-235V	PB-83	CB-283-3	WT-282-S	SS-23	SH-83
VE-243-3	DF-243	DF-243V	PB-83	CB-283-3	WT-282-S	SS-23	SH-83
VE-252-3	DF-252	DF-252V	PB-83	CB-283-3	WT-282-S	SS-23	SH-83
VE-261-3	DF-261	DF-261V	PB-83	CB-283-3	WT-282-S	SS-23	SH-83
VE-270-3	DF-270	DF-270V	PB-83	CB-283-3	WT-282-S	SS-23	SH-83
VE-278-3	DF-278	DF-278V	PB-83	CB-283-3	WT-282-S	SS-23	SH-83
VE-121-8	DF-121	DF-121V	PB-38	CB-238-3	WT-183-S	SS-28	SH-38
VE-128-8	DF-128	DF-128V	PB-38	CB-238-3	WT-183-S	SS-28	SH-38
VE-135-8	DF-135	DF-135V	PB-38	CB-238-3	WT-182-S	SS-28	SH-38
VE-143-8	DF-143	DF-143V	PB-38	CB-238-3	WT-182-S	SS-28	SH-38
VE-152-8	DF-152	DF-152V	PB-38	CB-238-3	WT-182-S	SS-28	SH-38
VE-161-8	DF-161	DF-161V	PB-38	CB-238-3	WT-182-S	SS-28	SH-38
VE-170-8	DF-170	DF-170V	PB-38	CB-238-3	WT-182-S	SS-28	SH-38
VE-178-8	DF-178	DF-178V	PB-38	CB-238-3	WT-182-S	SS-28	SH-38
VE-221-8	DF-221	DF-221V	PB-88	CB-288-3	WT-283-S	SS-28	SH-88
VE-228-8	DF-228	DF-228V	PB-88	CB-288-3	WT-283-S	SS-28	SH-88
VE-235-8	DF-235	DF-235V	PB-88	CB-288-3	WT-282-S	SS-28	SH-88
VE-243-8	DF-243	DF-243V	PB-88	CB-288-3	WT-282-S	SS-28	SH-88
VE-252-8	DF-252	DF-252V	PB-88	CB-288-3	WT-282-S	SS-28	SH-88
VE-261-8	DF-261	DF-261V	PB-88	CB-288-3	WT-282-S	SS-28	SH-88
VE-270-8	DF-270	DF-270V	PB-88	CB-288-3	WT-282-S	SS-28	SH-88
VE-278-8	DF-278	DF-278V	PB-88	CB-288-3	WT-282-S	SS-28	SH-88

CUSTOM FABRICATION

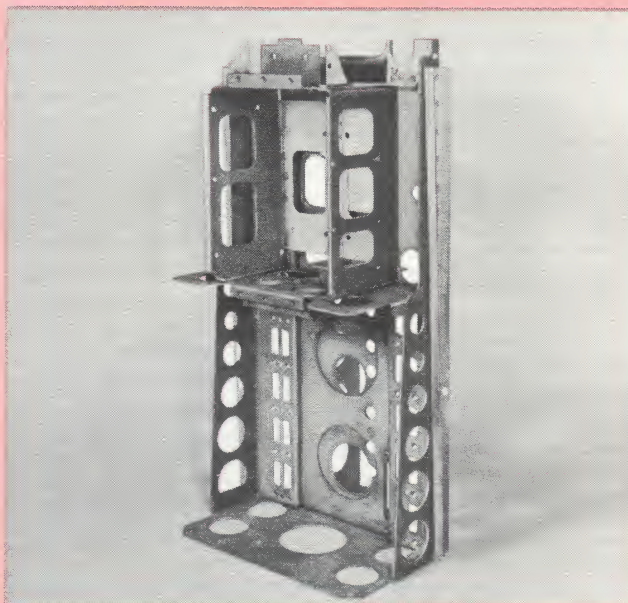
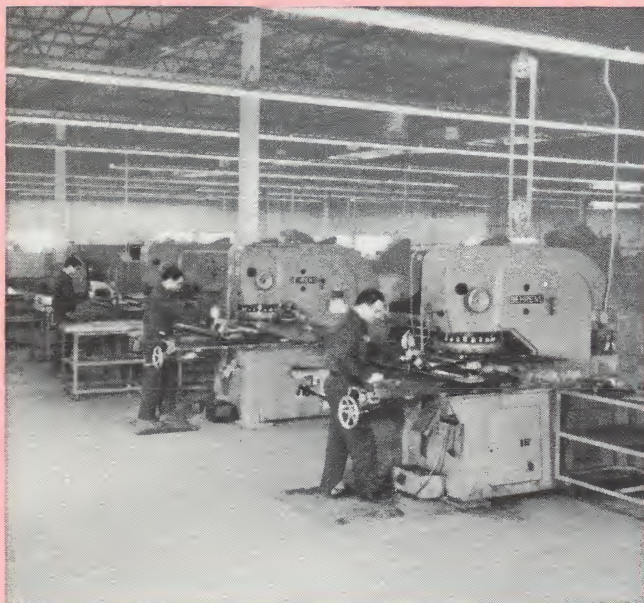
Knowledgeable manpower, trained to the high quality standards of CMP fabrication practice, provides CMP customers with prototypes and products of the highest order. CMP engineers are thoroughly experienced in the techniques of value analysis and engineering and are pleased to advise their customers on methods for reducing costs and improving product reliability.

Illustrated in this section are samples of custom produced components made by CMP and utilizing the most advanced fabrication and inspection equipment. These are notable for the many precise, close-tolerance operations required to produce them. Quality control, experience and ingenuity, supported by the finest equipment available, accounts for CMP's ability to produce such exacting parts in both production and small quantities at reasonable cost.



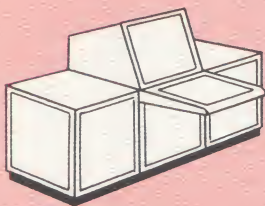
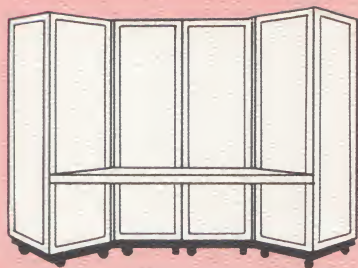
This cabinet assembly is composed of more than 100 integrated parts which were fabricated and assembled at CMP.

This intricate, stainless steel assembly with a tolerance of 0.010 inches across its entire width, was made from detail drawings with tolerances reduced 65% to achieve optimum results.

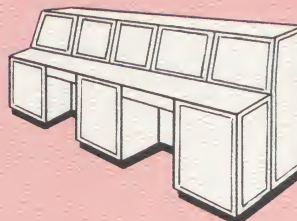
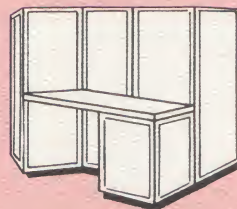
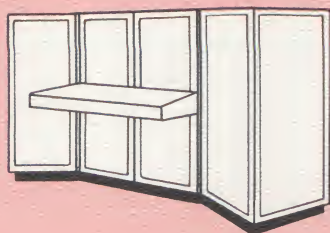
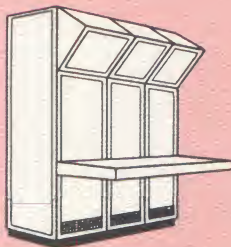


An assortment of parts which reflect CMP's capability for producing small as well as large components.





THE CMP MODULAR SYSTEM
OFFERS INFINITE VARIATIONS OF
STANDARD ENCLOSURES
UTILIZING BASIC FRAMES
AND COMPONENTS



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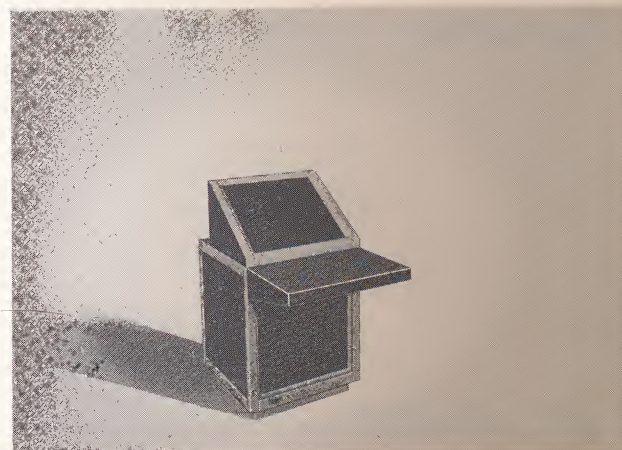
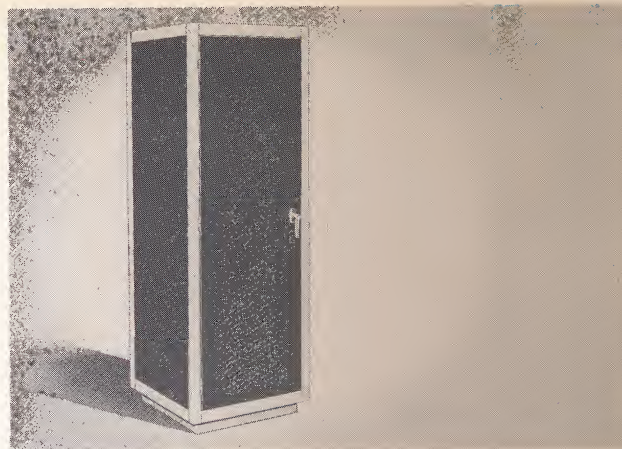
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